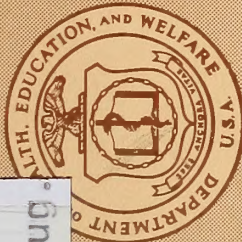


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1973  
July-Aug.



NIH LIBRARY

U.S. NATIONAL INSTITUTES OF HEALTH

# NEW GRANTS AND AWARDS

REPORT 19M

Arranged by State, City and Institution

Announced During

JULY and AUGUST 1973

U.S. DEPARTMENT OF  
HEALTH, EDUCATION, AND WELFARE  
Public Health Service

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1973

July-Aug.



PREPARED BY  
NATIONAL INSTITUTES OF HEALTH  
DIVISION OF RESEARCH GRANTS  
STATISTICS AND ANALYSIS BRANCH



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SYMBOLS USED TO IDENTIFY THE SUPPORTING INSTITUTE OR DIVISION

AH	DIVISION OF ALLIED HEALTH MANPOWER
AI	NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES
AM	NATIONAL INSTITUTE OF ARTHRITIS AND METABOLIC DISEASES
CA	NATIONAL CANCER INSTITUTE
	CB DIVISION OF CANCER BIOLOGY AND DIAGNOSIS
	CD OFFICE OF CANCER CONTROL
	CM DIVISION OF CANCER TREATMENT
	CP DIVISION OF CANCER CAUSE AND PREVENTION
CL	CLINICAL CENTER
CT	DIVISION OF COMPUTER RESEARCH AND TECHNOLOGY
DE	NATIONAL INSTITUTE OF DENTAL RESEARCH
DH	DIVISION OF DENTAL HEALTH
ES	NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES
EY	NATIONAL EYE INSTITUTE
GM	NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES
HD	NATIONAL INSTITUTE OF CHILD HEALTH AND HUMAN DEVELOPMENT
HL	NATIONAL HEART AND LUNG INSTITUTE
JT	JOINT (TWO OR MORE SUPPORTING INSTITUTES OR DIVISIONS)
LM	NATIONAL LIBRARY OF MEDICINE
MB	OFFICE OF THE DIRECTOR, BHME
MI	DIVISION OF MANPOWER INTELLIGENCE
NS	NATIONAL INSTITUTE OF NEUROLOGICAL DISEASES AND STROKE
NU	DIVISION OF NURSING
OD	OFFICE OF THE DIRECTOR, NIH
PE	DIVISION OF PHYSICIAN AND HEALTH PROFESSIONS EDUCATION
RG	DIVISION OF RESEARCH GRANTS
RR	DIVISION OF RESEARCH RESOURCES
RS	DIVISION OF RESEARCH SERVICES
TW	FOGARTY INTERNATIONAL CENTER

SYMBOLS USED TO IDENTIFY TYPE OR LEVEL OF FELLOWSHIP AND RESEARCH CAREER PROGRAM AWARD

THE ABBREVIATION FOLLOWING THE DEPARTMENT OR PROJECT TITLE IDENTIFIES THE TYPE AND/OR LEVEL OF AWARD

F02	POSTDOCTORAL FELLOWSHIP
F03	SPECIAL (INDIVIDUAL) FELLOWSHIP
F04	NURSING FELLOWSHIP
F05	INTERNATIONAL FELLOWSHIP
F10	FELLOWSHIP TRAINEESHIP
F11	DIRECT TRAINEESHIP
F13	HEALTH SCIENCE SCHOLAR
F15	FOGARTY INTERNATIONAL SCHOLARSHIP
K04	MODIFIED RESEARCH CAREER DEVELOPMENT AWARD
K07	ACADEMIC CAREER AWARD
K08	CLINICAL INVESTIGATOR CAREER AWARD



SUMMARY OF NEW GRANTS AND AWARDS ANNOUNCED DURING JULY AND AUGUST 1973

INSTITUTE OR DIVISION	NO.	RESEARCH GRANTS*	RESEARCH CONTRACTS	RESEARCH TRAINING		RESEARCH FELLOWSHIPS		RESEARCH PROGRAM AWARDS		EDUCATION GRANTS		CONSTRUCTION GRANTS		MEDICAL LIBRARY GRANTS	
		DOLLARS NO.	DOLLARS NO.	DOLLARS NO.	DOLLARS NO.	DOLLARS NO.	DOLLARS NO.	DOLLARS NO.	DOLLARS NO.	DOLLARS NO.	DOLLARS NO.	DOLLARS NO.	DOLLARS NO.	DOLLARS NO.	DOLLARS NO.
AI	13	291,119	4	203,184											
AM	27	871,306	16	415,093	1	23,076									
CA	59	5,830,886	1	2,668								9	12,411,278		
CB			42	4,155,394											
CM			3	499,410											
CN			12	3,121,871											
CP			18	2,544,440											
CT			1	24,350											
DE			5	434,355											
ES	2	50,659	1	15,267										11	308,629
EY	7	237,559	15	1,973,279											
GM	25	691,623													
HD	32	1,141,846	12	1,082,707											
HL	91	7,174,203	30	3,916,571											
LM	2	31,766	11	825,137											
NS	19	1,486,841	7	892,045											
OD			1	15,000											
RR			3	415,581											
RS			2	39,656											
TW															
	277	17,807,808	184	20,576,008	1	23,076	1	8,781	1	8,781		9	12,411,278	11	308,629

\* INCLUDES DIRECT COSTS ONLY FOR RESEARCH GRANTS



NIH  
RESEARCH GRANTS \*

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
<b>ALABAMA</b>			
BIRMINGHAM			
UNIVERSITY OF ALABAMA IN BIRMINGHAM			
CA15338-01	ACTON, RONALD T	MEMBRANE SPECIFICITIES RELATED TO NEOPLASIA	53,640
AI11456-01	CURTISS, ROY III	EXTRACHROMOSOMAL ELEMENTS IN GRAM NEGATIVE BACTERIA	27,195
INSTITUTION TOTAL	2		
CITY TOTAL	2		
STATE TOTAL	2		
<b>ARIZONA</b>			
TUCSON			
UNIVERSITY OF ARIZONA			
HL16111-01	OLSON, MERLE S	INTEGRATED REGULATION OF MYOCARDIAL ENERGY METABOLISM	37,578
INSTITUTION TOTAL	1		
CITY TOTAL	1		
STATE TOTAL	1		
<b>CALIFORNIA</b>			
BERKELEY			
UNIVERSITY OF CALIFORNIA SYSTEM--UNIVERSITY OF CALIFORNIA AT BERKELEY			
GM20115-01	BUDINGER, THOMAS F	LIQUID XENON MULTI-WIRE RADIOISOTOPE CAMERA	78,466
HD07505-01	SMITH, THOMAS C	FERTILITY CONTROL IN PREINDUSTRIAL JAPAN	18,516
INSTITUTION TOTAL	2		
CITY TOTAL	2		
<b>IRVINE</b>			
UNIVERSITY OF CALIFORNIA SYSTEM--UNIVERSITY OF CALIFORNIA AT IRVINE			
HL16198-01	OTIS, PETER F	MECHANISMS OF FIBRINOGEN SYNTHESIS	27,256
INSTITUTION TOTAL	1		
CITY TOTAL	1		
<b>LA JOLLA</b>			
SALK INSTITUTE FOR BIOLOGICAL STUDIES			
HD07651-01	GOSPODAROWICZ, DENIS J	OVARIAN GROWTH FACTOR AND CONTROL OF OVARIAN TUMORS	45,486
NS11323-01	LINDSTROM, JON M	STUDIES USING PURIFIED ACETYLCHOLINE RECEPTOR	41,200
INSTITUTION TOTAL	2		
DOLLARS AWARDED INCLUDE DIRECT COST ONLY			



NIH  
RESEARCH GRANTS \*

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
CALIFORNIA LA JOLLA UNIVERSITY OF CALIFORNIA SYSTEM--UNIVERSITY OF CALIFORNIA AT SAN DIEGO HL16157-01 NS11311-01	KOODYMAN, GERALD L SPITZER, NICHOLAS C	COMPARATIVE STUDY OF AIRWAY STRUCTURES AND LUNG FUNCTION ANATOMY AND PHYSIOLOGY OF EMBRYONIC SENSORY NEURONS	36,902 56,785
INSTITUTION TOTAL CITY TOTAL	2 4	93,687 180,373	
LOS ANGELES CHILDREN'S HOSPITAL OF LOS ANGELES CA15039-01	BENEDICT, WILLIAM F	CYTOGENETIC DIAGNOSIS AND ETIOLOGY OF HUMAN CANCER	25,025
INSTITUTION TOTAL	1	25,025	
LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT--MARTIN LUTHER KING, JR. GENERAL HOSPITAL HL15997-01	WILLIAMS, RICHARD A	A COMPREHENSIVE HOSPITAL-COMMUNITY SICKLE CELL CENTER	544,259
INSTITUTION TOTAL	1	544,259	
UNIVERSITY OF CALIFORNIA SYSTEM--UNIVERSITY OF CALIFORNIA AT LOS ANGELES HL15659-01A1 AM16611-01A1 CA15940-01 HL15605-01A1 HD07524-01	BELLVILLE, J WELDON CARLISLE, EDITH M SALSER, WINSTON A SIMMONS, DANIEL H WALTER, DONALD O	DYNAMIC ISOLATION STUDIES OF CONTROL OF RESPIRATION STUDY OF PHYSIOLOGICAL ROLE OF SILICON DETERMINING SEQUENCES FROM HEMOGLOBIN MESSENGER RNA SITE OF AIRWAY OBSTRUCTION AND CONTROL OF VENTILATION ARTIFACT REDUCTION FOR CHILDREN'S EEG'S	60,813 36,426 49,352 19,800 19,335
INSTITUTION TOTAL	5	185,726	
UNIVERSITY OF SOUTHERN CALIFORNIA A111656-01 HL16034-01 HL15642-01	DAVIS, RICHARD L YAMASHIRO, STANLEY M ZAWACKI, BRUCE E	ULTRASTRUCTURAL STUDIES OF C-VIRUS MURINE MYELOPATHY OPTIMAL ESTIMATION OF LUNG DISTRIBUTION FUNCTIONS CORTICOSTEROIDS AND SMOKE-INHALATION PATHOLOGY	21,366 24,500 16,615
INSTITUTION TOTAL CITY TOTAL	3 10	62,481 817,491	
MENLO PARK STANFORD RESEARCH INSTITUTE CA15029-01	ACON, EDWARD M	SYNTHESIS OF SEPTACIDIN ANALOGS AS ANTITUMOR DRUGS	23,450
INSTITUTION TOTAL CITY TOTAL	1 1	23,450 23,450	

DOLLARS AWARDED INCLUDE DIRECT COST ONLY

NIH  
RESEARCH GRANTS \*

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
CALIFORNIA SAN FRANCISCO UNIVERSITY OF LM01855-01 AM16666-01 AM16424-01A1 EY01121-01 NS11386-01 HL16294-01	CALIFORNIA SYSTEM--UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO KAMP, MARTIN KAN, YUET W SIEGEL, ROBERT C SMOLIN, GILBERT SUMNER, AUSTIN J WATSON, JOHN A	INDEX TO COMPUTERIZED TEACHING IN THE HEALTH SCIENCES STUDY OF ABNORMAL HEMOGLOBIN SYNTHESIS LYSYL OXIDASE MEDIATED COLLAGEN CROSS-LINKING THE AFFERENT ARC OF CORNEAL IMMUNOLOGIC REACTIONS EXPERIMENTAL NEUROPATHIES; CORRELATIVE STUDIES EFFECTORS OF CHOLESTEROL SYNTHESIS	6,136 50,368 33,346 45,941 31,408 36,832
INSTITUTION TOTAL	6	204,031	
UNIVERSITY OF THE PACIFIC HL15393-01	INESI, GIUSEPPE	STRUCTURE AND FUNCTION OF SARCOPLASMIC RETICULUM	29,670
INSTITUTION TOTAL	1	29,670	
CITY TOTAL	7	233,701	
SANTA MONICA INTRA-SCIENCE RESEARCH FOUNDATION CA15367-01	KHARASCH, NORMAN	SUPPORT FOR SYMPOSIUM ON CANCER CHEMOTHERAPY	5,000
INSTITUTION TOTAL	1	5,000	
CITY TOTAL	1	5,000	
STATE TOTAL	26	1,384,253	
COLORADO COLORADO SPRINGS COLORADO COLLEGE HD07478-01	HEIM, WERNER G	EFFECTS OF RAT ALPHA-2 MACROGLOBULIN ON CELL ADHESION	13,688
INSTITUTION TOTAL	1	13,688	
CITY TOTAL	1	13,688	
DENVER CHILDREN'S ASTHMA RESEARCH INSTITUTE AND HOSPITAL HL15620-01A1	ALEXANDER, A BARNEY	THE SYMPTOMATIC TREATMENT OF ASTHMA BY RELAXATION	35,678
INSTITUTION TOTAL	1	35,678	
UNIVERSITY OF COLORADO MEDICAL CENTER HL15430-01	COTTON, ERNEST K	CARDIOPULMONARY ADAPTATION OF NEWBORNS TO ALTITUDE	21,150

NIH  
RESEARCH GRANTS \*

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
COLORADO DENVER UNIVERSITY OF COLORADO MEDICAL CENTER CA15109-01	FINK, LOUIS M	TRANSFORMATION OF CELLS BY CHEMICAL CARCINOGENS	21,391
INSTITUTION TOTAL	2	42,541	
CITY TOTAL	3	78,219	
STATE TOTAL	4	91,907	
CONNECTICUT NEW HAVEN YALE UNIVERSITY AM17014-01 GM20230-01	SCOTT, ALASTAIR I WARD, DAVID C	PORPHYRIN AND CORRINOID BIOSYNTHESIS APPLICATION OF FLUORESCENT NUCLEOTIDE AFFINITY PROBES	96,718 36,094
INSTITUTION TOTAL	2	132,812	
CITY TOTAL	2	132,812	
STORRS UNIVERSITY OF CONNECTICUT CA14733-01 HL15036-01A1	MARCUS, PHILIP I STOY, ROBERT L, JR	STUDY OF GENETICS IN VITRO CINEPHOTOGRAPHY USING A LASER LIGHT SOURCE	180,216 17,500
INSTITUTION TOTAL	2	197,716	
CITY TOTAL	2	197,716	
STATE TOTAL	4	330,528	
DELAWARE NEWARK UNIVERSITY OF DELAWARE NS11272-01 GM19620-01	BOORD, ROBERT L WHITE, HAROLD B, III	LATERAL LINE PROJECTIONS VITAMIN TRANSPORT	12,950 12,987
DOLLARS AWARDED INCLUDE DIRECT COST ONLY		25,937	
CITY TOTAL	2	25,937	
STATE TOTAL	2	25,937	
DIST OF COL WASHINGTON GEORGE WASHINGTON UNIVERSITY HI 14031-01	MASSARO, DONALD J	THE LUNGS LINING LAYER: SYNTHESIS AND SECRETION	44,873



## RESEARCH GRANTS \*

DOLLARS  
AWARDED

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
INSTITUTION TOTAL	1	44,873	
CITY TOTAL	1	44,873	
STATE TOTAL	1	44,873	
FLORIDA			
GAINESVILLE			
STATE UNIVERSITY OF FLORIDA SYSTEM--UNIVERSITY OF FLORIDA			
HD07659-01	DAVIS, FRANCIS C	GENE EXPRESSION DURING OOGENESIS AND EMBRYOGENESIS	23,632
CA15334-01	SMITH, RICHARD T	CELLULAR MECHANISMS IN TUMOR-SPECIFIC IMMUNITY	72,360
INSTITUTION TOTAL	2	95,992	
CITY TOTAL	2	95,992	
MIAMI			
UNIVERSITY OF MIAMI			
HL15999-01	HARKNESS, DONALD R	MIAMI COMPREHENSIVE SICKLE CELL CENTER	343,691
CA14927-01A2	RADOMSKI, JACK L	ENVIRONMENTAL BLADDER CARCINOGENS	94,365
CA14957-01	SIGEL, MICHAEL M	IMMUNOLOGY OF CANCER OF THE URINARY BLADDER	59,380
INSTITUTION TOTAL	3	497,436	
CITY TOTAL	3	497,436	
MIAMI BEACH			
MOUNT SINAI MEDICAL CENTER			
HL15780-01	GREENBERG, JACK J	NON-INVASIVE EVALUATION OF CARDIAC FUNCTION	34,338
INSTITUTION TOTAL	1	34,338	
CITY TOTAL	1	34,338	
TALLAHASSEE			
STATE UNIVERSITY OF FLORIDA SYSTEM--FLORIDA STATE UNIVERSITY			
HD07629-01	DYE, THOMAS R	POPULATION-POLICY LINKAGES IN CITIES AND SUBURBS	33,532
INSTITUTION TOTAL	1	33,532	
CITY TOTAL	1	33,532	
STATE TOTAL	7	661,298	

DOLLARS AWARDED INCLUDE DIRECT COST ONLY

NIH  
RESEARCH GRANTS \*

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
GEORGIA ATLANTA EMORY UNIVERSITY CA14162-01A1 HL14904-01A1	GLAZER, ROBERT I NUTTER, DONALD O	CARCINOGEN INTERACTIONS IN REGENERATING LIVER CIRCULATORY REGULATION DURING STATIC MUSCULAR EXERCISE	24,313 21,530
INSTITUTION TOTAL CITY TOTAL	2 2	45,843 45,843	
STATE TOTAL	2	45,843	
HAWAII HONOLULU UNIVERSITY OF HAWAII HL15991-01	SYSTEM--UNIVERSITY OF HAWAII AT MANOA NGRTON, TED R	EVALUATION OF HEART STIMULANTS IN SEA ANEMONES	21,020
INSTITUTION TOTAL CITY TOTAL	1 1	21,020 21,020	
STATE TOTAL	1	21,020	
ILLINOIS CHICAGO NORTHWESTERN UNIVERSITY CA15434-01 HD07504-01	KAHAN, BARRY D SCHWARTZ, NEENA B	ANTIGENIC STIMULUS IN HUMAN COLON CARCINOMA IMMUNITY ENVIRONMENTAL AND HORMONAL INTERPLAY OF OVULATION	48,826 66,840
INSTITUTION TOTAL	2	115,666	
UNIVERSITY OF CHICAGO HL15239-01A1 HL16005-01 GM21184-01	ANAGNOSTOPULOS, CONSTANTINE BOWMAN, JAMES E RINGO, GEORGE R	GROWTH IN VASCULAR GRAFTS SUPPORT FOR COMPREHENSIVE SICKLE CELL CENTER AN ION MICROPROBE ANALYZER FOR BIOLOGY	19,903 775,223 62,710
INSTITUTION TOTAL CITY TOTAL	3 5	857,836 973,502	
URBANA UNIVERSITY OF ILLINOIS SYSTEM--UNIVERSITY OF ILLINOIS AT URBANA HD07303-01 HL16101-01 HL16059-01	ASHER, STEVEN R GENNIS, ROBERT B JONAS, ANA	STUDY OF DEVELOPMENT OF ABILITY TO COMMUNICATE PROTEIN-LIPID INTERACTION STRUCTURE AND FUNCTION OF SERUM LIPOPROTEINS	16,028 27,910 31,189
INSTITUTION TOTAL	3	75,127	

DOLLARS AWARDED INCLUDE DIRECT COST ONLY

NIH  
RESEARCH GRANTS \*

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
CITY TOTAL	3	75,127	
STATE TOTAL	8	1,048,629	
INDIANA			
INDIANAPOLIS	SYSTEM--INDIANA UNIVERSITY AT INDIANAPOLIS		
HL16094-01	FRIEDMAN, JULIUS J	THE DYNAMICS OF MICROCIRCULATORY FUNCTION	16,590
HL15425-01A1	IATRIDIS, PANAYOTIS G	THE ROLE OF HAGEMAN FACTOR IN FIBRINOLYSIS	30,193
HL15694-01	LLOYD, THOMAS C, JR	PULMONARY VASCULAR AND LEFT ATRIAL BAROREFLEXES	25,456
INSTITUTION TOTAL	3	72,239	
CITY TOTAL	3	72,239	
NOTRE DAME			
UNIVERSITY OF NOTRE DAME	CASTELLINO, FRANCIS J	STUDIES ON PLASMINOGEN ISOZYMES AND STREPTOKINASE	12,050
HL15747-01			
INSTITUTION TOTAL	1	12,050	
CITY TOTAL	1	12,050	
STATE TOTAL	4	84,289	
IOWA			
AMES	STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY		
AT11606-01A1	ZIMMERMANN, WILLIAM J	IMMUNODIAGNOSIS OF TRICHINIASIS	16,766
INSTITUTION TOTAL	1	16,766	
CITY TOTAL	1	16,766	
GRINNELL			
GRINNELL COLLEGE	BAYS, J PHILIP	SYNTHESIS AND BIOSYNTHESIS OF CEPHALOTAXINE	7,460
GM20368-01			
INSTITUTION TOTAL	1	7,460	
CITY TOTAL	1	7,460	
IOWA CITY			
UNIVERSITY OF IOWA	HEISTAD, DONALD D	STUDIES ON THE CHEMORECEPTOR REFLEX	30,697
HL16066-01			
DOLLARS AWARDED INCLUDE DIRECT COST ONLY			



NIH  
RESEARCH GRANTS \*

DOLLARS  
AWARDED

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
IOWA			
IOWA CITY			
UNIVERSITY OF IOWA			
NS10833-01A1	LORKOVIC, HRVOJE R	ANALYSIS OF CHANGES IN MUSCLES CAUSED BY DENERVATION	17,890
HL16149-01	MARK, ALLYN L	VENTRICULAR BARORECEPTORS IN CIRCULATORY CONTROL	35,157
AM16841-01	SCHEDL, HAROLD P	DUODENAL CALCIUM BINDING PROTEIN: ACTIONS AND CONTROL	42,320
INSTITUTION TOTAL	4	126,064	
CITY TOTAL	4	126,064	
STATE TOTAL	6	150,290	
KANSAS			
KANSAS CITY			
UNIVERSITY OF KANSAS			
AM16968-01	WELLING, LARRY W	ANALYTIC FORMULATION OF TRANSPORT IN SINGLE NEPHRONS	28,508
INSTITUTION TOTAL	1	28,508	
CITY TOTAL	1	28,508	
STATE TOTAL	1	28,508	28,508
KENTUCKY			
LEXINGTON			
UNIVERSITY OF KENTUCKY			
HL15528-01	KOTCHEN, THEODORE A	RENIN KINETICS IN HYPERTENSIVE AND UREMIC PLASMA	18,674
INSTITUTION TOTAL	1	18,674	
CITY TOTAL	1	18,674	
STATE TOTAL	1	18,674	18,674
LOUISIANA			
NEW ORLEANS			
TULANE UNIVERSITY			
AI11645-01	MALEK, EMILE A	MALACOLOGICAL STUDIES IN LOUISIANA AND TEXAS	11,899
INSTITUTION TOTAL	1	11,899	
CITY TOTAL	1	11,899	
STATE TOTAL	1	11,899	11,899

DOLLARS AWARDED INCLUDE DIRECT COST ONLY

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RESEARCH GRANTS \*DOLLARS  
AWARDED

## TITLE OF RESEARCH PROPOSAL

MAINE  
ORONO  
UNIVERSITY OF MAINE SYSTEM--UNIVERSITY OF MAINE AT ORONO  
AM15745-01A1 LERNER, JOSEPH  
NS11276-01 MC CLEAVE, JAMES D  
AI11740-01 MC DANIEL, IVAN N  
GM20514-01 ROONEY, JAMES A

14,580  
18,450  
19,889  
15,505

INSTITUTION TOTAL 4 68,424  
CITY TOTAL 4 68,424

STATE TOTAL 4 68,424

MARYLAND  
BALTIMORE  
JOHNS HOPKINS UNIVERSITY  
NS11447-01 BORDLEY, JOHN E  
HL15779-01 CAMERON, JOHN L  
CA15416-01 COFFEY, DONALD S  
AM17243-01 LARSON, STEVEN M  
HL15930-01 MARGOLIS, SIMEON  
NS11451-01 NATHANSON, NEAL  
HL16315-01 SCHRAMM, LAWRENCE P  
HL15349-01A1 WALKER, W GORDON

39,992  
44,680  
52,390  
23,976  
32,960  
92,503  
28,514  
28,970

THE NATIONAL TEMPORAL BONE BANKS CENTER  
ASPIRATION PNEUMONIA: PATHOPHYSIOLOGY AND TREATMENT  
SUPPORT FOR PROGRAM FOR CONTROL OF PROSTATIC CANCER  
TRACER TECHNIQUES IN DIAGNOSIS OF ACUTE CHOLECYSTITIS  
HORMONAL CONTROL OF LIPID AND LIPOPROTEIN SYNTHESIS  
STUDY OF THE IMMUNOPATHOGENESIS OF VISNA  
ANALYSIS OF INTERACTION BETWEEN CNS VASOMOTOR SYSTEMS  
STUDY OF ROLE OF ANGIOTENSIN IN HYPERTENSION

INSTITUTION TOTAL 8 343,985

UNIVERSITY OF MARYLAND SYSTEM--UNIVERSITY OF MARYLAND PROFESSIONAL SCHOOLS  
GM19394-01A1 KIRTLEY, MARY E  
CA14975-01 REUBER, MELVIN D

25,488  
26,331

STUDY OF GLYCOLYTIC ENZYMES BOUND TO MEMBRANES  
CARCINOGENESIS OF LARGE BOWEL CANCER IN ANIMALS

INSTITUTION TOTAL 2 51,819  
CITY TOTAL 10 395,804

STATE TOTAL 10 395,804

MASSACHUSETTS  
AMHERST  
UNIVERSITY OF MASSACHUSETTS SYSTEM--UNIVERSITY OF MASSACHUSETTS AT AMHERST  
GM20909-01 MASON, THOMAS L

23,186

A GENETIC APPROACH TO MEMBRANE ASSEMBLY

INSTITUTION TOTAL 1 23,186  
CITY TOTAL 1 23,186

DOLLARS AWARDED INCLUDE DIRECT COST ONLY

NIH  
RESEARCH GRANTS \*

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
MASSACHUSETTS BOSTON BOSTON UNIVERSITY HL15503-014 NS11408-01	SHEPRO, DAVID ZURIF, EDGAR B	CALCIUM FLUX IN PLATELET MEMBRANES COMMUNICATION IN APHASIA: MECHANISMS AND REHABILITATION	32,800 45,473
INSTITUTION TOTAL	2	78,273	
CENTER FOR BLOOD RESEARCH HL16190-01	PALEK, JIRI	EFFECT OF PROSTAGLANDINS ON HUMAN ERYTHROCYTES	53,942
INSTITUTION TOTAL	1	53,942	
CHILDREN'S HOSPITAL MEDICAL CENTER HL15895-01 HL15963-01	BRESLOW, JAN L LUX, SAMUEL E, IV	IN VITRO STUDY OF LIPOPROTEINS IN VASCULAR DISEASE LIPID METABOLISM: PLASMA AND MEMBRANE LIPOPROTEINS	58,794 67,421
INSTITUTION TOTAL	2	126,215	
HARVARD UNIVERSITY CA14723-01 HL16256-01 HL15968-01 NS11010-01 HL16177-01 NS11027-01 GM20609-01	BENACERRAF, BARUJ CALDINI, PACLO HERRERA, M GUILLERMO HILDEBRAND, JOHN G MC LAUGHLIN, ROBERT J PATTERSON, PAUL H THOMPSON, ROBERT C	STUDIES ON EXPERIMENTAL CANCER IMMUNOLOGY RESPIRATORY MECHANICS IN HEMODYNAMICS PULMONARY EDEMA DIETARY CONTROL OF SYNTHESIS OF HEPATIC LIPOPROTEINS NEUROBIOLOGY OF INSECT DEVELOPMENT AND METAMORPHOSIS CONTRACTILE AND ELASTIC PROPERTIES OF CARDIAC MUSCLE CELLULAR INTERACTION IN NEURONAL TISSUE CULTURE PHOTO-AFFINITY LABELS AS PROBES OF RIBOSOME FUNCTION	326,570 35,040 20,860 47,087 30,355 24,920 13,410
INSTITUTION TOTAL	7	498,242	
MASSACHUSETTS GENERAL HOSPITAL CA15479-01 AM16453-01 AM16269-01A2	DALY, JAMES J GLICKMAN, ROBERT M WALKER, W ALLAN	LDH ISOZYMES AND CHROMOSOMES IN BLADDER CARCINOMA FORMATION, STRUCTURE, AND FUNCTION OF CHYLOMICRONS INTESTINAL UPTAKE OF MACROMOLECULES	48,585 19,410 36,009
INSTITUTION TOTAL	3	104,004	
NEW ENGLAND MEDICAL HL15810-01	CENTER HOSPITALS COHEN, JORDAN J	ELECTROLYTE PHYSIOLOGY & RESPIRATORY ACID-BASE	84,133
INSTITUTION TOTAL	1	84,133	
RETINA FOUNDATION EV01242-01	RIVA, CHARLES E	STUDY OF OCULAR BLOOD FLOW WITH DYE DILUTION METHOD	27,280
INSTITUTION TOTAL	1	27,280	

DOLLARS AWARDED INCLUDE DIRECT COST ONLY



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RESEARCH GRANTS \*

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
MASSACHUSETTS BOSTON TUFTS UNIVERSITY CA15136-01	DVORAK, ANN M	BASOPHIL/MAST CELL FUNCTION IN THE CONTROL OF CANCER	46,930
INSTITUTION TOTAL	1		46,930
CITY TOTAL	18		1,019,019
CAMBRIDGE BIO-RESEARCH INSTITUTE CA15033-01A1	HOMBURGER, FREDDY	A HAMSTER MODEL FOR HUMAN BLADDER CANCER	33,518
INSTITUTION TOTAL	1		33,518
HARVARD UNIVERSITY AM17255-01	ITO, SUSUMU	STUDY OF DISSOCIATED AND SEPARATED GASTRIC CELL TYPES	31,833
INSTITUTION TOTAL	1		31,833
MASSACHUSETTS INSTITUTE OF TECHNOLOGY NS11000-01	PEAKE, WILLIAM T	SIGNAL TRANSMISSION IN THE AUDITORY SYSTEM	56,327
INSTITUTION TOTAL	1		56,327
CITY TOTAL	3		121,678
WALTHAM BRANDEIS UNIVERSITY GM20275-01	CHAN, IU-YAM	PHOSPHORESCENT TRIPLET STATE OF POLYNUCLEOTIDES	18,475
INSTITUTION TOTAL	1		18,475
CITY TOTAL	1		18,475
WOODS HOLE MARINE BIOLOGICAL LABORATORY AM16793-01 GM20644-01	BALL, ERIC G STEPHENS, RAYMOND E	REGULATION OF METABOLISM THE FORMATION AND FUNCTION OF MICROTUBULES	2,000 28,455
INSTITUTION TOTAL	2		30,455
CITY TOTAL	2		30,455
WORCESTER UNIVERSITY OF MASSACHUSETTS SYSTEM--UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL AM17456-01	FLATT, JEAN-PIERRE	FAT MOBILIZATION AND PROTEIN SPARING THERAPY	45,358
DOLLARS AWARDED INCLUDE DIRECT COST ONLY			

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DOLLARS  
AWARDED

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	
INSTITUTION TOTAL	1		45,358
CITY TOTAL	1		45,358
STATE TOTAL	26		1,258,171
 MICHIGAN			
ANN ARBOR			
UNIVERSITY OF MICHIGAN	FERRELL, WILLIAM J	ALDEHYDOGENIC LIPIDS AND THIOETHERS IN HUMAN HEART	7,292
HL16200-01	KARSCH, F J	FUNCTIONAL LUTEOLYSIS IN PRIMATES: ROLE OF ESTROGEN	38,700
HD07689-01	MONTO, ARNOLD S	STUDY OF HUMAN CORONAVIRUSES	40,625
AI11829-01			
INSTITUTION TOTAL	3		86,617
CITY TOTAL	3		86,617
 DETROIT			
WAYNE STATE UNIVERSITY	WHITTEN, CHARLES F	WAYNE STATE UNIVERSITY COMPREHENSIVE SICKLE CELL CENTER	608,373
HL16008-01			
INSTITUTION TOTAL	1		608,373
CITY TOTAL	1		608,373
 EAST LANSING			
MICHIGAN STATE UNIVERSITY		CARDIAC GLYCOSIDES: MECHANISM OF INOTROPIC ACTION	55,000
HL16052-01	AKERA, TAI	ENDOCRINE COROLLATES WITH PROSTAGLANDIN F2A	23,886
HD06948-01A1	HAFS, HAROLD D	CARDIOVASCULAR DRUGS AND THE NA- AND K-ION-ATPASE	25,489
HL16055-01	TOBIN, THOMAS		
INSTITUTION TOTAL	3		104,375
CITY TOTAL	3		104,375
STATE TOTAL	7		799,365
 MINNESOTA			
MINNEAPOLIS			
UNIVERSITY OF MINNESOTA		STUDIES OF NORMAL AND CANCEROUS PROSTATE	26,966
CA15062-01	AHMED, KHALIL	PROGRAM ON SURGICAL CONTROL OF THE HYPERLIPIDEMIAS	1,440,452
HL15265-01	BUCHWALD, HENRY	ROLE OF COMPLEMENT IN INTRAVASCULAR COAGULATION	28,690
HL15215-01A1	DALMASSO, AGUSTIN P	GASTRITIS INDUCED BY INTESTINAL JUICES	39,362
AM16431-01	DELANEY, JOHN P		

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GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
MINNESOTA MINNEAPOLIS UNIVERSITY OF MINNESOTA HL14969-01A2 EY01211-01 HL16430-01 HL16182-01 EY01197-01	DIETZMAN, RONALD H DOUGHMAN, DONALD J KNOX, CHARLES K NICOLOFF, DEMETRE M RATHBUN, WILLIAM B	STUDY OF POST-TRAUMATIC PULMONARY INSUFFICIENCY ORGAN CULTURE OF CORNEAS REFLEX CONTROL OF RESPIRATION XYLOCAINE: CHRONIC INFUSION AND TOXICITY GLUTATHIONE METABOLISM IN OCULAR TISSUES	27,024 30,643 24,548 33,782 45,778
INSTITUTION TOTAL CITY TOTAL	9 9	1,697,245 1,697,245	
ROCHESTER MAYO FOUNDATION AM17238-01	SZURSZEWSKI, JOSEPH H	GASTRINS, NEUROTRANSMITTERS AND ANTRAL SMOOTH MUSCLE	25,870
INSTITUTION TOTAL CITY TOTAL	1 1	25,870 25,870	
SAINT PAUL UNIVERSITY OF MINNESOTA GM20884-01 GM19551-01	FUCHS, JAMES A HARTL, DANIEL L	DEOXYRIBONUCLEOTIDE METABOLISM IN ESCHERICHIA COLI GENETIC STUDIES OF SEGREGATION-DISTORTER POPULATIONS	24,000 15,000
INSTITUTION TOTAL CITY TOTAL	2 2	39,000 39,000	
STATE TOTAL	12	1,762,115	
MISSISSIPPI JACKSON UNIVERSITY OF MISSISSIPPI MEDICAL CENTER HL16036-01	CROWELL, JACK W	PHYSIOLOGY OF ACUTE STATES	19,437
INSTITUTION TOTAL CITY TOTAL	1 1	19,437 19,437	
STATE TOTAL	1	19,437	
MISSOURI COLUMBIA UNIVERSITY OF MISSOURI SYSTEM--UNIVERSITY OF MISSOURI AT COLUMBIA HL16017-01	FOSSLIEN, EGIL	AUTOMATED HEMOGLOBIN ELECTROPHORESIS	37,597
DOLLARS AWARDED INCLUDE DIRECT COST ONLY			

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DOLLARS  
AWARDED

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
INSTITUTION TOTAL	1		37,597
CITY TOTAL	1		37,597
MISSOURI			
SAINT LOUIS			
WASHINGTON UNIVERSITY			
CA15241-01	HILL, GEORGE J, II	CENTRAL ONCOLOGY GROUP	12,104
NS11417-01	OGURA, JOSEPH H	CORE PROGRAM PROJECT IN COMMUNICATIVE DISORDERS	110,713
INSTITUTION TOTAL	2		122,817
CITY TOTAL	2		122,817
STATE TOTAL	3		160,414
MONTANA			
BOZEMAN			
MONTANA STATE UNIVERSITY			
CA15322-01	REED, NORMAN D	ONCOGENESIS IN CONGENITALLY ATHYMIC MICE	17,106
INSTITUTION TOTAL	1		17,106
CITY TOTAL	1		17,106
STATE TOTAL	1		17,106
NEBRASKA			
OMAHA			
CREIGHTON UNIVERSITY			
HL15903-01	LYNCH, HENRY T	HEREDITARY PROGRESSIVE A-V CONDUCTION DEFECT	35,000
AM17125-01	MAGEE, DONAL F	THE SECRETION OF PEPSIN	20,955
INSTITUTION TOTAL	2		55,955
CITY TOTAL	2		55,955
STATE TOTAL	2		55,955
NEW HAMPSHIRE			
DURHAM			
UNIVERSITY OF NEW HAMPSHIRE SYSTEM--UNIVERSITY OF NEW HAMPSHIRE			
HL15771-01	MORRISON, JAMES D	AMBIPEPTIC CYCLOPEPTIDES	23,390
INSTITUTION TOTAL	1		23,390
CITY TOTAL	1		23,390

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RESEARCH GRANTS \*

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
STATE TOTAL	1	23,390	
NEW JERSEY			
NEW BRUNSWICK			
RUTGERS--THE STATE UNIVERSITY	STROLLER, VICTOR	METABOLISM AND BIOCHEMISTRY OF CULTURED MOSQUITO CELLS	17,250
AI11290-01			
INSTITUTION TOTAL	1	17,250	
CITY TOTAL	1	17,250	
NEWARK			
COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY--NEW JERSEY MEDICAL SCHOOL			
EY01174-01	LAEMLE, LOIS K	AN EXPERIMENTAL STUDY OF THE DEVELOPING VISUAL SYSTEM	25,880
INSTITUTION TOTAL	1	25,880	
CITY TOTAL	1	25,880	
PISCATAWAY			
COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY--RUTGERS MEDICAL SCHOOL			
HL16134-01	WEISS, HARVEY R	NEW TECHNIQUE FOR REGIONAL O2 CONSUMPTION OF HEART	46,254
INSTITUTION TOTAL	1	46,254	
CITY TOTAL	1	46,254	
STATE TOTAL	3	89,384	
NEW MEXICO			
ALBUQUERQUE			
UNIVERSITY OF NEW MEXICO			
CA14052-01	KLIGERMAN, MORTON M	PRECLINICAL STUDIES FOR PION RADIOTHERAPY	602,145
CA15036-01	REYES, PHILIP	STUDY OF A PHOSPHORIBOSYLTRANSFERASE FROM LEUKEMIC CELLS	25,202
HL14843-01A1	SHANNON, ROGER	RESPIRATORY MUSCLE AFFERENTS IN RESPIRATORY CONTROL	22,474
INSTITUTION TOTAL	3	649,821	
CITY TOTAL	3	649,821	
STATE TOTAL	3	649,821	
NEW YORK			
ALBANY			
UNION COLLEGE AND UNIVERSITY SYSTEM--ALBANY MEDICAL COLLEGE			
HL15484-01	STEBBENS, WILLIAM E	ANEURYSMS, ARTERIOVENOUS FISTULAS AND ATHEROSCLEROSIS	40,000

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DOLLARS  
AWARDED

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
INSTITUTION TOTAL	1	40,000	
CITY TOTAL	1	40,000	
NEW YORK BUFFALO			
NEW YORK STATE DEPARTMENT OF HEALTH--ROSWELL PARK MEMORIAL INSTITUTE			
CA14801-01	CARTER, WILLIAM A	CHEMOTHERAPY AND REGULATION OF ONCOGENIC VIRUSES	260,000
CA14812-01	DAO, THOMAS L	MAMMARY CARCINOGENESIS	186,230
HD08410-01	DOYLE, DARRELL J	GENETIC REGULATION OF MOUSE LIVER ENZYMES	52,302
CA15142-01	MIHICH, ENRICO	CANCER CHEMOTHERAPY AND IMMUNOLOGIC EFFECTS	74,697
CA14555-01	SANDBERG, AVERY A	CHROMOSOMES OF HUMAN BLADDER TUMORS	39,868
GM20454-01	SHOWS, THOMAS B	HUMAN GENE LINKAGE RELATIONSHIPS IN CELL HYBRIDS	45,000
CA14993-01	WEISS, LEONARD	THE EFFECT OF IMMUNOLOGIC FACTORS ON METASTASIS	25,086
INSTITUTION TOTAL	7	683,183	
STATE UNIVERSITY OF NEW YORK AT BUFFALO			
GM21045-01	SLAUNWHITE, W ROY, JR	THE STRUCTURE OF HUMAN TRANSCRIPTIN	17,975
INSTITUTION TOTAL	1	17,975	
CITY TOTAL	8	701,158	
NEW YORK			
AMERICAN HEALTH FOUNDATION			
CA15400-01	WEISBURGER, JOHN H	MECHANISM OF ACTION OF COLON CARCINOGENESIS	147,035
INSTITUTION TOTAL	1	147,035	
CITY UNIVERSITY OF NEW YORK--BROOKLYN COLLEGE			
GM20596-01	LI, HSUEH-JEI	HELIX-COIL TRANSITION IN NUCLEOPROTEIN	15,312
INSTITUTION TOTAL	1	15,312	
CITY UNIVERSITY OF NEW YORK--MOUNT SINAI SCHOOL OF MEDICINE			
HL15764-01	KIRCHBERGER, MADELEINE A	CAMP DEPENDENT PROTEIN KINASE IN CARDIAC CONTRACTION	34,000
INSTITUTION TOTAL	1	34,000	
COLUMBIA UNIVERSITY			
HL16652-01	SUSSER, MERVYN W	ASTHMA AND AIR POLLUTION IN TWO INNER CITY AREAS	41,676
INSTITUTION TOTAL	1	41,676	

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DOLLARS  
AWARDED

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
NEW YORK NEW YORK CORNELL UNIVERSITY MEDICAL COLLEGE AM17240-01 GIBBS, JAMES G, JR CA14557-01 MILLER, DENIS R		PHYSIOLOGICAL MECHANISMS OF SATIETY CHILDREN'S CANCER STUDY GROUP A	30,536 10,750
INSTITUTION TOTAL	2	41,286	
HOSPITAL FOR JOINT DISEASES AND MEDICAL CENTER CA14194-01 HOLLANDER, VINCENT P		CORE GRANT FOR CANCER STUDIES	265,636
INSTITUTION TOTAL	1	265,636	
NEW SCHOOL FOR SOCIAL RESEARCH EY01135-01 MACK, ARIEN		STUDY OF PERCEPTION DURING PURSUIT EYE MOVEMENTS	20,520
INSTITUTION TOTAL	1	20,520	
NEW YORK UNIVERSITY CA14980-01 GEACINTOV, NICHOLAS E HL15596-01 JOHNSON, ALAN J CA13343-01 NELSON, NORTON CA15315-01 TROLL, WALTER HL15140-01A1 WEISSMANN, GERALD		POLYCYCLIC CARCINOGEN-NUCLEIC ACID INTERACTIONS COAGULATION, FIBRINOLYSIS, HEMOSTASIS AND HEPATITIS STUDY OF ENVIRONMENTAL CANCER THE CONTROL OF BLADDER CANCER LYSOSOMAL PROTEASES AND CHRONIC PULMONARY DISEASE	38,259 357,656 395,000 59,265 38,796
INSTITUTION TOTAL	5	888,976	
ROCKEFELLER UNIVERSITY HL16271-01 FEDORKO, MARTHA E		BIOLOGY OF BONE MARROW CELLS - MEGAKARYOCYTES	25,781
INSTITUTION TOTAL	1	25,781	
YESHIVA UNIVERSITY NS11431-01 PAPPAS, GEORGE D HL15461-01 WITTENBERG, JONATHAN B		FINE STRUCTURE OF SYNAPSES AND THEIR MODIFICATION HEMEPROTEIN INTERACTIONS: MODELS OF SICKLE HEMOGLOBIN	110,050 41,618
INSTITUTION TOTAL	2	151,668	
CITY TOTAL	16	1,631,890	
POTS DAM CLARKSON COLLEGE OF TECHNOLOGY HL15726-01 JELLINEK, HANS H		PERMEATION MECHANISM OF GASES FROM THE LUNG	28,565
INSTITUTION TOTAL	1	28,565	
CITY TOTAL	1	28,565	

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RESEARCH GRANTS \*

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
NEW YORK ROCHESTER UNIVERSITY OF ROCHESTER GM19962-01	WEITKAMP, LOWELL R	HUMAN AUTOSOMAL GENE LINKAGE	26,240
INSTITUTION TOTAL CITY TOTAL	1 1	26,240 26,240	26,240
SARANAC LAKE TRUDEAU INSTITUTE AM17159-01	VOLKMAN, ALVIN	POLYARTHROPATHY IN SALMONELLA-INFECTED RATS	20,846
INSTITUTION TOTAL CITY TOTAL	1 1	20,846 20,846	20,846
TROY RENSELAER POLYTECHNIC INSTITUTE GM20560-01	MOSS, GERALD	ANESTHESIA AND PATHWAYS OF BRAIN GLUCOSE OXIDATION	23,570
INSTITUTION TOTAL CITY TOTAL	1 1	23,570 23,570	23,570
UPTON ASSOCIATED UNIVERSITIES--BROOKHAVEN NATIONAL LABORATORY CA15298-01	BOND, VICTOR P	RADIATION & HOST-IMMUNE DEFENSE MECHANISMS IN MALIGNANCY	28,750
INSTITUTION TOTAL CITY TOTAL	1 1	28,750 28,750	28,750
STATE TOTAL	30	2,501,019	
NORTH CAROLINA CHAPEL HILL UNIVERSITY OF NORTH CAROLINA SYSTEM--UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	CASSEL, JOHN C SHACHTMAN, RICHARD WOODS, JAMES W	FIBRINOLYTIC RESPONSE AND HABITUAL PHYSICAL ACTIVITY LONG-TERM COMPLICATIONS OF INDUCED ABORTIONS ORAL CONTRACEPTIVES AND HYPERTENSION	18,126 15,960 20,072
INSTITUTION TOTAL CITY TOTAL	3 3	54,158 54,158	



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DOLLARS  
AWARDED

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
NORTH CAROLINA DURHAM			
DUKE UNIVERSITY			
LM01778-01	ANLYAN, WILLIAM G	EXPERIENCES WITH THE DUKE CURRICULUM	25,630
CA14930-01	BONAR, ROBERT A	RNA IN NORMAL AND NEOPLASTIC UROTHELIAL CELLS	24,384
HL16448-01	BRUNLEY, GEORGE W	FETAL LUNG FLUID -- CHARACTERIZATION AND LAVAGE EFFECTS	34,826
HL16037-01	LEFKOWITZ, ROBERT J	MOLECULAR PROPERTIES OF CARDIAC ADRENERGIC RECEPTORS	49,255
AM17091-01	MC CORD, JOE M	SUPEROXIDE AND SUPEROXIDE DISMUTASE IN HUMAN DISEASE	27,875
HL16264-01	MENZEL, DANIEL B	ROLE OF INFLAMMATORY HORMONES IN CHRONIC LUNG DISEASE	38,586
AI11800-01	MEITZGAR, RICHARD S	WORKSHOP ON TRANSPLANTATION GENETICS OF PRIMATES	9,950
CA15292-01	MICKEY, DON	FUNCTION OF ONCOGENIC VIRUSES IN BLADDER CANCER	27,457
CA15417-01	PAULSON, DAVID F	VIRUSES AND VIRUS-LIKE PARTICLES IN PROSTATIC TUMORS	26,215
AM17128-01	PINNELL, SHELDON R	THE COLLAGEN AND ELASTIN OF CONNECTIVE TISSUE DISEASE	36,000
CA14236-01	SHINGLETON, WILLIAM W	COMPREHENSIVE CANCER CENTER SUPPORT GRANT	600,734
CA14926-01	VERGARA, JUAN	ULTRASTRUCTURE OF NORMAL AND NEOPLASTIC UROTHELIUM	21,974
HL15888-01	WAUGH, ROBERT A	COMPARATIVE STEREOLOGY OF THE MYOCARDIUM	44,157
INSTITUTION TOTAL	13	967,043	
CITY TOTAL	13	967,043	
STATE TOTAL	16	1,021,201	

OHIO			
CINCINNATI			
CHILDREN'S HOSPITAL	MEDICAL CENTER--CHILDREN'S HOSPITAL		
HL15996-01	GASTON, MARILYN	CINCINNATI SICKLE CELL ANEMIA CENTER	201,810
INSTITUTION TOTAL	1	201,810	
CITY TOTAL	1	201,810	

CLEVELAND			
CASE WESTERN RESERVE	UNIVERSITY		
AI11333-01	NAFF, GEORGE B	CHARACTERIZATION OF THE PROPERDIN SYSTEM	25,803
CA15378-01	OLEINICK, NANCY L	RADIATION-INDUCED MODIFICATIONS IN PROTEIN SYNTHESIS	48,020
CA15412-01	SOLOWAY, MARK S	DIAGNOSIS AND TREATMENT OF BLADDER CANCER IN MICE	18,886
INSTITUTION TOTAL	3	92,709	
CITY TOTAL	3	92,709	

COLUMBUS			
OHIO STATE UNIVERSITY			
NS10896-01A1	MILLER, DUANE D	DEVELOPMENT OF SELECTIVE B-ADRENORECEPTIVE AGENTS	24,449

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GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
OHIO			
COLUMBUS			
OHIO STATE UNIVERSITY			
HL16236-01	SMITH, C ROGER	WALL SHEAR STRESSES IN CORONARY VESSELS	27,974
INSTITUTION TOTAL	2	52,423	
CITY TOTAL	2	52,423	
STATE TOTAL	6	346,942	
OREGON			
CORVALLIS			
OREGON STATE HIGHER EDUCATION SYSTEM--OREGON STATE UNIVERSITY			
GM19617-01	BROWN, LYLE R	GENETICS AND PHYSIOLOGY OF DEVELOPMENTAL MUTANTS	27,000
INSTITUTION TOTAL	1	27,000	
CITY TOTAL	1	27,000	
EUGENE			
OREGON STATE HIGHER EDUCATION SYSTEM--UNIVERSITY OF OREGON			
CA15004-01	BOEKELHEIDE, VIRGIL C	SYNTHESIS OF POTENTIAL ANTITUMOR AND ANTIVIRAL AGENTS	34,281
AM16879-01	HERBERT, EDWARD	NEURO-ENDOCRINE STUDIES IN CELL CULTURE SYSTEMS	19,416
INSTITUTION TOTAL	2	53,697	
CITY TOTAL	2	53,697	
PORTLAND			
MEDICAL RESEARCH FOUNDATION OF OREGON			
HD07602-01	SPIES, HAROLD G	NEURAL INFLUENCE ON HYPOPHYSEAL-GONADAL FUNCTION	89,746
INSTITUTION TOTAL	1	89,746	
OREGON STATE HIGHER EDUCATION SYSTEM--UNIVERSITY OF OREGON MEDICAL SCHOOL			
CA15072-01	DAWSON, PETER J	PATHOLOGY OF LYMPHOID NEOPLASMS DERIVED FROM T & B CELLS	21,951
HD07378-01	LIS, ADAM W	UV-ABSORBING COMPONENTS IN URINE	38,697
GM20022-01	RIKER, WILLIAM K	CARTILAGE-SELECTIVE RADIOCONTRAST AGENTS	25,000
INSTITUTION TOTAL	3	85,648	
CITY TOTAL	4	175,394	
STATE TOTAL	7	256,091	

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GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
PENNSYLVANIA LANCASTER ST. JOSEPH HOSPITAL NS10720-01A1	COLEMAN, MARY P	INVESTIGATIONS OF VITAMIN B6 IN DOWN'S SYNDROME	34,705
INSTITUTION TOTAL	1		34,705
CITY TOTAL	1		34,705
PHILADELPHIA CHILDREN'S HOSPITAL CA14489-01	EVANS, AUDREY E	PEDIATRIC CANCER RESEARCH CENTER	306,000
INSTITUTION TOTAL	1		306,000
HAHNEMANN MEDICAL COLLEGE AND HOSPITAL OF PHILADELPHIA CA13611-01A1	BRODSKY, ISADORE	EASTERN COOPERATIVE ONCOLOGY GROUP	19,000
INSTITUTION TOTAL	1		19,000
LANKENAU HOSPITAL HL16252-01	HOLMES, WILLIAM L	THIRD INTERNATIONAL SYMPOSIUM ON ATHEROSCLEROSIS	10,000
INSTITUTION TOTAL	1		10,000
MEDICAL COLLEGE OF PENNSYLVANIA HL16283-01 CA15477-01	ROBERTS, JAY ZAJAC, BARBARA A	PHARMACOLOGIC STUDIES OF CORONARY OCCLUSION ARRHYTHMIAS ESTABLISHMENT OF CELL CULTURES OF HUMAN TUMOR UROTHELIUM	45,085 15,000
INSTITUTION TOTAL	2		60,085
PHILADELPHIA COUNTY MEDICAL SOCIETY CA14974-01	WEISS, WILLIAM	PROGNOSTIC FACTORS IN LUNG CANCER	15,356
INSTITUTION TOTAL	1		15,356
TEMPLE UNIVERSITY GM2C594-01 HL14924-01A1 AM17262-01	KIM, SANGDUK LACKO, ANDRAS G ROXBY, ROBERT	ENZYMATIC MODIFICATION OF CARBOXYL RESIDUES IN PROTEIN PURIFICATION & CHARACTERIZATION OF HUMAN PLASMA LECITHIN CHOLESTEROL ACYL TRANSFERASE MEASUREMENT OF LIGAND BINDING TO ASSOCIATING ENZYMES	30,623 37,038 24,000
INSTITUTION TOTAL	3		91,661
THOMAS JEFFERSON UNIVERSITY HD08433-01	CHEPENIK, KENNETH P	BIOCHEMICAL EVENTS PRECEDING BIRTH DEFECTS	64,657
INSTITUTION TOTAL	1		64,657
DOLLARS AWARDED INCLUDE DIRECT COST ONLY			

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RESEARCH GRANTS \*

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
PENNSYLVANIA PHILADELPHIA UNIVERSITY OF PENNSYLVANIA HL16076-01 NS11037-01 AM16549-01 CA14985-01	MOORE, E NEIL SILBERBERG, DONALD H SOLOWAY, ROGER D ZEIDMAN, IRVING	ELECTROPHYSIOLOGY OF FIBRILLATION ETIOLOGY AND PATHOGENESIS OF MULTIPLE SCLEROSIS SICKLE CELL DISEASE: GALLSTONES AND LIVER DYSFUNCTION 5-BROMODEOXYURIDINE EFFECTS ON MARROW AND TUMOR CELLS	39,440 257,648 54,850 19,556
INSTITUTION TOTAL	4	371,494	
WISTAR INSTITUTE OF ANATOMY AND BIOLOGY NS11036-01	KOPROWSKI, HILARY	ETIOLOGY AND PATHOGENESIS OF MULTIPLE SCLEROSIS	433,546
INSTITUTION TOTAL CITY TOTAL	1 15	433,546 1,371,799	
PITTSBURGH CHILDREN'S HOSPITAL OF PITTSBURGH HD07403-01	PARADISE, JACK L	INDICATIONS FOR TONSILLECTOMY AND ADENOIDECTOMY	53,089
INSTITUTION TOTAL	1	53,089	
UNIVERSITY OF PITTSBURGH AL11798-01 HD07307-01	HO, MONTO ROSINSKI, RICHARD R	LATENCY AND REACTIVATION OF CYTOMEGALOVIRUS INFECTION THE DEVELOPMENT OF SPACE PERCEPTION IN CHILDREN	21,845 13,929
INSTITUTION TOTAL CITY TOTAL	2 3	35,774 88,863	
UNIVERSITY PARK PENNSYLVANIA STATE UNIVERSITY HL16247-01	RHOADES, RCDNEY A	FACTORS INFLUENCING SUBSTRATE UPTAKE BY THE LUNG	23,759
INSTITUTION TOTAL CITY TOTAL	1 1	23,759 23,759	
STATE TOTAL	20	1,519,126	
RHODE ISLAND KINGSTON GORDON RESEARCH CONFERENCES HL16447-01	BARR, LLOYD	SUPPORT FOR CONFERENCE ON THE SMOOTH MUSCLES	5,000
INSTITUTION TOTAL	1	5,000	
DOLLARS AWARDED INCLUDE DIRECT COST ONLY			



NIH  
RESEARCH GRANTS \*

DOLLARS  
AWARDED

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
CITY TOTAL	1	5,000	
RHODE ISLAND			
PROVIDENCE			
ROGER WILLIAMS GENERAL HOSPITAL			
CA13943-01	CALABRESI, PAUL	SUPPORT FOR CLINICAL CANCER RESEARCH CENTER	591,271
INSTITUTION TOTAL	1	591,271	
CITY TOTAL	1	591,271	
STATE TOTAL	2	596,271	
SOUTH CAROLINA			
CHARLESTON			
MEDICAL UNIVERSITY OF SOUTH CAROLINA			
HL15782-01	MARKWALD, ROGER R	MUCOPOLYSACCHARIDE METABOLISM IN CARDIAC ANOMALIES	24,305
INSTITUTION TOTAL	1	24,305	
CITY TOTAL	1	24,305	
STATE TOTAL	1	24,305	
TENNESSEE			
KNOXVILLE			
UNIVERSITY OF TENNESSEE SYSTEM--UNIVERSITY OF TENNESSEE AT KNOXVILLE			
HL15564-01	FORRESTER, JOHN H	FLOW CHARACTERISTICS IN SIMULATED ARTERIAL STENOSSES	18,504
GM19991-01	VAN HOOK, WILLIAM A	AQUEOUS SOLVENT ISOTOPE EFFECTS - PERMANENT GAS SOLUTES	17,397
INSTITUTION TOTAL	2	35,901	
CITY TOTAL	2	35,901	
MEMPHIS			
UNIVERSITY OF TENNESSEE SYSTEM--UNIVERSITY OF TENNESSEE MEDICAL UNITS			
CA15189-01	COX, RAY	DNA REPAIR AND CARCINOGENESIS	15,915
INSTITUTION TOTAL	1	15,915	
CITY TOTAL	1	15,915	
NASHVILLE			
VANDERBILT UNIVERSITY			
HD07694-01	CONIGLIO, JOHN G	LIPID CHEMISTRY AND METABOLISM IN REPRODUCTIVE TISSUE	32,159

DOLLARS AWARDED INCLUDE DIRECT COST ONLY

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RESEARCH GRANTS \*

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
<b>TENNESSEE</b>			
NASHVILLE			
<b>VANDERBILT UNIVERSITY</b>			
HL16646-01	HAWIGER, JACK J	INFECTIONS & COAGULATION: CELLULAR & HUMORAL FACTORS	39,712
HL16114-01	INAGAMI, TADASHI	RENIN: PURIFICATION, CHARACTERIZATION AND ASSAY	25,720
AM17475-01	ROSENTHAL, RONALD E	STUDIES OF THE SYNOVIAL RESPONSE TO ACUTE TRAUMA	22,974
INSTITUTION TOTAL			
CITY TOTAL	4	120,565	
	4	120,565	
STATE TOTAL			
	7	172,381	
<b>TEXAS</b>			
AUSTIN			
<b>UNIVERSITY OF TEXAS</b>			
HD07727-01	SYSTEM--UNIVERSITY OF TEXAS AT AUSTIN	PHOTOPERIODIC CONTROL OF REPRODUCTION	37,777
GM20028-01	MENAKER, MICHAEL	MAN-COMPUTER INTERACTIVE ANALYSIS OF CHROMOSOMES	50,000
	RICHARDSON, RICHARD H		
INSTITUTION TOTAL			
CITY TOTAL	2	87,777	
	2	87,777	
<b>DALLAS</b>			
<b>UNIVERSITY OF TEXAS</b>			
HL15949-01	SYSTEM--UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT DALLAS	LIPOPROTEIN METABOLISM IN RELATION TO ATHEROSCLEROSIS	76,382
HL16024-01	BILLHEIMER, DAVID W	CONTROL OF CHOLESTEROL SYNTHESIS IN HYPERLIPIDEMIA	46,258
AM16816-01	BROWN, MICHAEL S	GASTRIC ACID SECRETION AND BUFFER CONTENT AFTER EATING	36,501
HD07707-01	FORDTRAN, JOHN S	METABOLIC STUDY OF PEDIATRIC PARENTERAL ALIMENTATION	36,724
ES01028-01	MIZE, CHARLES E	ROLE OF AIR POLLUTANTS IN AIR-BORNE INFECTION	31,623
HL15682-01	SOUTHERN, PAUL M, JR	DEVELOPMENT OF ANTI-THROMBOGENIC MEMBRANE OXYGENATORS	43,711
HL15884-01	SUGG, WINFRED L	ORGAN DISTRIBUTION OF CO WITH IA COUNTERPULSATION	25,000
	WATSON, JOHN T		
INSTITUTION TOTAL			
CITY TOTAL	7	296,199	
	7	296,199	
<b>HOUSTON</b>			
<b>BAYLOR COLLEGE OF MEDICINE</b>			
HD08436-01	CLARK, JAMES	ESTROGEN RECEPTORS AND REPRODUCTIVE FUNCTIONS	31,432
HD08218-01	TENG, CHING-SUNG	STUDY OF HORMONE-CONTROLLED SEX-ORGAN DIFFERENTIATION	42,757
INSTITUTION TOTAL			
	2	74,189	
<b>UNIVERSITY OF TEXAS</b>			
HD07422-01	SYSTEM--UNIVERSITY OF TEXAS GRADUATE SCHOOL OF BIOMEDICAL SCIENCES AT HOUSTON	REGULATION OF PINEAL ENZYMIC ACTIVITY BY SEX STEROIDS	9,000
	PRESLOCK, JAMES P		

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DOLLARS  
AWARDED

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
TEXAS HOUSTON UNIVERSITY OF TEXAS CA15293-01 CA15438-01 CA14528-01	SYSTEM--UNIVERSITY OF TEXAS M. D. ANDERSON HOSPITAL AND TUMOR INSTITUTE CLARK, R LEE DMOCHOWSKI, LEON FREIREICH, EMIL J	ANNUAL SYMPOSIUM ON FUNDAMENTAL CANCER RESEARCH STUDY OF ONCOGENIC VIRUSES IN HUMAN PROSTATE CANCER STUDY OF CANCER CHEMOTHERAPY	28,509 79,650 228,126
INSTITUTION TOTAL	3	336,285	
UNIVERSITY OF TEXAS HD07664-01	SYSTEM--UNIVERSITY OF TEXAS MEDICAL SCHOOL AT HOUSTON STEINBERGER, ANNA	GONADOTROPIN SECRETION IN LH AND FSH CLONE CULTURES	50,998
INSTITUTION TOTAL	1	50,998	
CITY TOTAL	7	470,472	
LUBBOCK TEXAS TECH UNIVERSITY AM16814-01	LAMAR, CARLOS, JR	THE EFFECT OF VAGOTOMY ON HEPATIC REGENERATION	13,315
INSTITUTION TOTAL	1	13,315	
CITY TOTAL	1	13,315	
SAN ANTONIO UNIVERSITY OF TEXAS HL15914-01	SYSTEM--UNIVERSITY OF TEXAS MEDICAL SCHOOL AT SAN ANTONIO MC GILL, HENRY C, JR	EXPERIMENTAL ATHEROSCLEROSIS IN BABOONS	247,250
INSTITUTION TOTAL	1	247,250	
CITY TOTAL	1	247,250	
STATE TOTAL	18	1,115,013	
UTAH LOGAN UTAH STATE HIGHER EDUCATION SYSTEM--UTAH STATE UNIVERSITY A111435-01	SPENDLOVE, REX S	EFFECT OF ZWITTERIONIC BUFFERS ON MYOPLASMAL GROWTH	10,710
INSTITUTION TOTAL	1	10,710	
CITY TOTAL	1	10,710	
SALT LAKE CITY UTAH STATE HIGHER EDUCATION SYSTEM--UNIVERSITY OF UTAH HD07243-01	BERGER, PATRICIA J	PLANT FACTORS STIMULATING MAMMALIAN REPRODUCTION	14,400
DOLLARS AWARDED INCLUDE DIRECT COST ONLY			

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RESEARCH GRANTS \*

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
UTAH SALT LAKE CITY UTAH STATE HIGHER EDUCATION SYSTEM--UNIVERSITY OF UTAH GM19559-01	PARKINSON, JOHN S	GENETIC AND MOLECULAR STUDIES OF BACTERIAL BEHAVIOR	29,270
INSTITUTION TOTAL	2	43,670	
CITY TOTAL	2	43,670	
STATE TOTAL	3	54,380	
VIRGINIA BLACKSBURG VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY GM19913-01	RONY, PETER R	TAUTOMERIC CATALYSIS--A MODEL OF ENZYME CATALYSIS	23,000
INSTITUTION TOTAL	1	23,000	
CITY TOTAL	1	23,000	
CHARLOTTESVILLE UNIVERSITY OF VIRGINIA NS11254-01 HD07796-01	EDWARDS, STEPHEN B EMERSON, CHARLES P, JR	PROJECTIONS OF THE MIDBRAIN RETICULAR FORMATION SYNTHESIS OF MYOSIN DURING MUSCLE DIFFERENTIATION	30,745 39,710
INSTITUTION TOTAL	2	70,455	
CITY TOTAL	2	70,455	
RICHMOND VIRGINIA COMMONWEALTH UNIVERSITY AI10601-01A2 HD07749-01 CA15487-01 CA13921-01	GOODALE, FAIRFIELD JOHNSON, JAMES H REGELSON, WILLIAM ROGERS, CHARLES C	STUDIES ON THE PATHOGENESIS OF FEVER NEUROELECTRIC CORRELATES OF GONADOTROPIN RELEASE STUDY OF USE OF DELTA-9 THC WITH CANCER PATIENTS PRELIMINARY STUDIES FOR NEUTRON CANCER THERAPY TRIAL	30,654 45,077 56,183 79,555
INSTITUTION TOTAL	4	211,469	
CITY TOTAL	4	211,469	
STATE TOTAL	7	304,924	
WASHINGTON PULLMAN WASHINGTON STATE UNIVERSITY ES01009-01	KLEINHOF, ANDRIS	MECHANISM OF AZIDE MUTAGENESIS	19,036
INSTITUTION TOTAL	1	19,036	
DOLLARS AWARDED	INCLUDE DIRECT COST ONLY		



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DOLLARS  
AWARDED

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
CITY TOTAL	1	19,036	
WASHINGTON			
SEATTLE			
CHILDREN'S ORTHOPEDIC HOSPITAL AND MEDICAL CENTER			
HD07582-01	RAY, CHARLES G	EPIDEMIOLOGIC STUDIES OF SUDDEN UNEXPECTED DEATH	39,084
INSTITUTION TOTAL	1	39,084	
PROVIDENCE HCSPITAL			
HL15933-01	EVVOY, MATTHEW H	ANATOMIC STUDY OF VARICOSE VEINS IN THE LEGS	1,000
INSTITUTION TOTAL	1	1,000	
UNIVERSITY OF WASHINGTON			
EY01208-01	HENDRICKSON, ANITA E	DEVELOPMENT OF THE PRIMATE RETINA AND VISUAL THALAMUS	41,517
AM16849-01	SCRIBNER, BELDING H	METABOLIC ASPECTS OF LONG TERM PARENTERAL NUTRITION	37,954
HL16254-01	SMITH, LYNWOOD S	PATHOGENESIS OF BUBBLE AND CLOT FORMATION	26,409
HD07552-01	YAMAMURA, KOZO	ECONOMIC STUDY OF FERTILITY DECLINE IN POSTWAR JAPAN	16,123
INSTITUTION TOTAL	4	122,003	
VIRGINIA MASCN FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH			
CA15421-01	GIBBONS, ROBERT P	CHEMOTHERAPY FOR ADVANCED PROSTATIC CANCER	73,719
INSTITUTION TOTAL	1	73,719	
CITY TOTAL	7	235,806	
STATE TOTAL	8	254,842	
WISCONSIN			
MADISON			
UNIVERSITY OF WISCONSIN SYSTEM--UNIVERSITY OF WISCONSIN-MADISON			
CA14919-01A1	BALISH, EDWARD	THE ETIOLOGY OF CANCER OF THE LARGE BOWEL	54,531
HL15473-01A1	BISGARD, GERALD E	CHEMORECEPTORS AND VENTILATORY CONTROL	21,200
CA15064-01	CHU, FUN S	IMMUNOCHEMICAL STUDIES ON CARCINOGENIC MYCOTOXINS	18,872
HL15469-01	DEMPSEY, JEROME A	HUMAN VENTILATORY ADAPTATION TO MODERATE HYPOXEMIA	14,494
AI11674-01	EASTERDAY, BERNARD C	EFFECT OF INFLUENZA-VIRUS HYBRIDS ON INFECTIONS	37,167
HD07778-01	HONG, RICHARD	STUDY AND THERAPY OF IMMUNE DEFICIENCY	36,702
HD07682-01	SWEET, JAMES A	STUDY OF CHANGING PATTERNS OF FERTILITY	61,808
INSTITUTION TOTAL	7	244,774	
CITY TOTAL	7	244,774	

DOLLARS AWARDED INCLUDE DIRECT COST ONLY

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RESEARCH GRANTS \*DOLLARS  
AWARDED

30,792

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL
WISCONSIN MILWAUKEE UNIVERSITY OF WISCONSIN SYSTEM--UNIVERSITY CF WISCONSIN-MILWAUKEE HL15975-01	SHAH, VIPINCHANDRA L	NUMERICAL MODELING OF BLOOD OXYGENATION UNITS
INSTITUTION TOTAL	1	30,792
CITY TOTAL	1	30,792
STATE TOTAL	8	275,566
TOTAL	277	17,807,808

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RESEARCH CONTRACTSDOLLARS  
AWARDED

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
ALABAMA BIRMINGHAM UNIVERSITY OF ALABAMA IN BIRMINGHAM CN35032-00 HL32939-00 HL33107-00	BRANSCOMB, BEN V HABEEB, AHMED F SCHNAPER, HAROLD W	SUPPORT FOR REHABILITATION FACILITY FOR CANCER PATIENTS STUDY AND PREPARATION OF GAMMA GLOBULIN SUPPORT FOR CLINICAL CENTER FOR CORONARY HEART DISEASE	366,914 64,200 359,035
INSTITUTION TOTAL CITY TOTAL	3 3	790,149 790,149	
STATE TOTAL	3	790,149	
ALASKA COLLEGE UNIVERSITY OF ALASKA AM32232-00	SCOTT, E M	SUPPLIES FOR ARCTIC HEALTH RESEARCH CENTER	4,000
INSTITUTION TOTAL CITY TOTAL	1 1	4,000 4,000	
STATE TOTAL	1	4,000	
CALIFORNIA BERKELEY ANDROS, INC. HL33002-00	PORTNER, PEER M	FABRICATION OF A PROTOTYPE PULMONARY-FUNCTION ANALYZER	57,310
INSTITUTION TOTAL CITY TOTAL	1 1	57,310 57,310	
COSTA MESA BAXTER LABORATORIES---TRAVENOL LABORATORIES, HYLAND DIVISION HL32970-00	GARCIA, LUIS A	NEW METHODS OF PLASMA FRACTIONATION	167,800
INSTITUTION TOTAL CITY TOTAL	1 1	167,800 167,800	
DUARTE CITY OF HCPE MEDICAL CENTER CB33907-00	CHNO, SUSUMU	PATHOLOGICAL HISTORY OF THE MAMMARY GLAND	89,520
INSTITUTION TOTAL CITY TOTAL	1 1	89,520 89,520	

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AWARDED

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	
CALIFORNIA LA JOLLA SALK INSTITUTE FOR BIOLOGICAL STUDIES CP33405-00 CB33879-00	2 HOLLEY, ROBERT W NICOLSON, GARTH L	STUDY OF CONTROL OF THE CELL CYCLE STUDY OF SUPRAMOLECULAR ORGANIZATION OF CELL SURFACES	241,424 139,279
INSTITUTION TOTAL	2	380,703	
SCRIPPS CLINIC AND RESEARCH FOUNDATION CB33881-00	VANDERLAAN, WILLARD P	PROLACTIN RADIOIMMUNOASSAYS ON HUMAN SERA	97,187 477,890
INSTITUTION TOTAL	1		97,187
CITY TOTAL	3		477,890
LOS ANGELES CEDARS-SINAI MEDICAL CENTER AM32225-00	MAXWELL, MORTON H	DEVELOPMENT OF DIALYSIS SYSTEM	75,000
INSTITUTION TOTAL	1		75,000
LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT--LOS ANGELES COUNTY--UNIV OF SO CALIFORNIA MED CTR HD32757-00	BERNSTEIN, GERALD S	COLLABORATIVE STUDY OF THE EFFECT OF VASECTOMY	
INSTITUTION TOTAL	1		337,000
UMF SYSTEMS LM34732-00	NOT APPLICABLE	MICROFILMING OF BIOMEDICAL LITERATURE	
INSTITUTION TOTAL	1		215,850
UNIVERSITY OF CALIFORNIA SYSTEM--UNIVERSITY OF CALIFORNIA AT LOS ANGELES CB43852-00 CB43860-00	MORTON, DONALD L WEIMER, HENRY E	STUDY OF HUMAN MELANOMA DEVELOPMENT OF IMMUNODIAGNOSTIC TESTS FOR CANCER	199,173 162,155
INSTITUTION TOTAL	2		361,328
CITY TOTAL	5		989,178
MENLO PARK STANFORD RESEARCH INSTITUTE AI32534-00 NS32322-00	CHAO, FU-CHUAN WEAVER, CHARLES S	EXTRACTION OF ANTIGENS FROM POLLEN DEVELOPMENT OF RECORDING SYSTEM	66,695 135,342
INSTITUTION TOTAL	2		202,037
CITY TOTAL	2		202,037

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CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
CALIFORNIA NORTH HOLLYWOOD INDIVIDUAL AWARD--ARMITAGE, FRANK LM34722-00	NOT APPLICABLE	PURCHASE OF MEDICAL ILLUSTRATIONS	12,645
INSTITUTION TOTAL	1	12,645	
INDIVIDUAL AWARD--WEINER, JILL PENKHUS LM34721-00	NOT APPLICABLE	PURCHASE OF MEDICAL ILLUSTRATIONS	9,739
INSTITUTION TOTAL	1	9,739	
CITY TOTAL	2	22,384	
OAKLAND CHILDREN'S HOSPITAL CB33906-00	MEDICAL CENTER OF NORTHERN CALIFORNIA ABRAHAM, SAMUEL	IDENTIFICATION OF CELL TYPES IN CULTURE	88,000
INSTITUTION TOTAL	1	88,000	
KAISER FOUNDATION HOSPITALS--KAISER FOUNDATION RESEARCH INSTITUTE CB33921-00 KODLIN, DANKWARD HL33105-00	WILD, JOHN B	STUDY OF CHRONIC MASTOPATHY SUPPORT FOR CLINICAL CENTER FOR HEART DISEASE	52,700 352,965
INSTITUTION TOTAL	2	405,665	
CITY TOTAL	3	493,665	
RICHMOND ELECTRONIC PROTECTION SYSTEMS HL32972-00	CONDE, HECTOR O	DONOR-RECIPIENT IDENTIFICATION IN BLOOD TRANSFUSIONS	35,070
INSTITUTION TOTAL	1	35,070	
CITY TOTAL	1	35,070	
SAN FRANCISCO UNIVERSITY OF CALIFORNIA SYSTEM--UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO AM32217-00	HOLLIDAY, MALCOLM A	DEVELOPMENT OF NUTRITIONAL SUPPLEMENT FOR RENAL PATIENTS	40,197
INSTITUTION TOTAL	1	40,197	
CITY TOTAL	1	40,197	
SIERRA MADRE ALPHA GAMMA LABORATORIES AI32533-00	SHEN, JAMES T	PRODUCTION OF ANTISERUM FOR ANTIGENS	43,000



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RESEARCH CONTRACTSDOLLARS  
AWARDED

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
INSTITUTION TOTAL	1	43,000	
CITY TOTAL	1	43,000	
CALIFORNIA			
STANFORD			
STANFORD UNIVERSITY			
LM34734-00	NOT APPLICABLE	EVALUATION OF ATS-F HEALTH EXPERIMENTS	88,840
INSTITUTION TOTAL	1	88,840	
CITY TOTAL	1	88,840	
STATE TOTAL	22	2,706,891	
COLORADO			
DENVER			
UNIVERSITY OF COLORADO MEDICAL CENTER			
HL33001-00	SODAL, INGVAR E	DEVELOPMENT OF HIGH-PERFORMANCE RESPIRATORY SPECTROMETER	61,545
INSTITUTION TOTAL	1	61,545	
CITY TOTAL	1	61,545	
STATE TOTAL	1	61,545	
CONNECTICUT			
NEW HAVEN			
YALE UNIVERSITY			
CB43865-00	GERSHON, RICHARD K	STUDY OF THERAPY WITH NEURAMINIDASE-TREATED TUMOR CELLS	113,712
CB43859-00	MARCHESI, VINCENT T	BIOCHEMISTRY AND DIAGNOSTIC USE OF HUMAN TUMOR ANTIGENS	108,000
INSTITUTION TOTAL	2	221,712	
CITY TOTAL	2	221,712	
WOODBIDGE			
BIO-GANT CORPORATION			
HL32969-00	JEWETT, W J	NEW METHODS FOR PLASMA FRACTIONATION	140,520
INSTITUTION TOTAL	1	140,520	
CITY TOTAL	1	140,520	
STATE TOTAL	3	362,232	

140,520

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RESEARCH CONTRACTS

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
DIST OF COL			
WASHINGTON			
GEORGETOWN UNIVERSITY			
HD32799-00	RIDLEY, JEANNE C	STUDY OF LOW-FERTILITY COHORTS	99,911
INSTITUTION TOTAL	1		99,911
NATIONAL ACADEMY OF SCIENCES			
OD40044-0071	HARMON, LINDSEY	TABULATION OF DOCTORAL SCIENTISTS AND ENGINEERS	15,000
NS40044-0072	MARSHALL, LOUISE H	STUDY OF MANPOWER RESOURCES	84,550
INSTITUTION TOTAL	2		99,550
TELESEC			
LM34737-00	NOT APPLICABLE	PREPARATION AND MAINTENANCE OF LIBRARY MATERIALS	68,793
LM34736-00	NOT APPLICABLE	CATALOG OF BIBLIOGRAPHIC DATA	29,518
INSTITUTION TOTAL	2		98,311
CITY TOTAL	5		297,772
STATE TOTAL	5		297,772
FLORIDA			
GAINESVILLE			
STATE UNIVERSITY OF FLORIDA SYSTEM--UNIVERSITY OF FLORIDA			
HD32761-00	BARB, DAVID S	STUDY OF PREPARATION OF CONJUGATED ESTROGENS	53,086
CB43857-00	WALDMAN, ROBERT H	EVALUATION OF EFFECT OF BGG THERAPY IN LUNG CANCER	110,500
INSTITUTION TOTAL	2		163,586
CITY TOTAL	2		163,586
JACKSONVILLE			
FLORIDA DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES--DIVISION OF HEALTH			
DE32427-00	FARRELL, E W	STUDY OF EFFICACY OF AMINE FLUORIDE MOUTH RINSE	144,480
INSTITUTION TOTAL	1		144,480
CITY TOTAL	1		144,480
MIAMI			
PAPANICOLAOU CANCER RESEARCH INSTITUTE			
HL33015-00	SMITH, UNA	STUDY OF FINE STRUCTURE OF NORMAL LUNG CELLS	164,900
CB33861-00	ZUCKER, ROBERT M	STUDY OF KINETICS OF TUMOR CELLS	183,550
INSTITUTION TOTAL	2		348,450

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RESEARCH CONTRACTS

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
FLORIDA MIAMI UNIVERSITY OF MIAMI HL33006-00 EY32118-00 CB43861-0C	MEUDE, THOMAS J NORTON, EDWARD ROSENBERG, EUGENE B	DIAGNOSTIC TECHNIQUES FOR SICKLE CELL DISEASE STUDY OF DIABETIC RETINOPATHY COLLECTION OF TUMOR AND SERUM SPECIMENS	42,060 50,012 143,700
INSTITUTION TOTAL CITY TOTAL	3 5	235,772 584,222	
STATE TOTAL	8	892,288	
GEORGIA ATLANTA EMORY UNIVERSITY LM34730-00	NOT APPLICABLE	PREPARATION OF MEDIATED SELF-INSTRUCTION MATERIALS	29,019
INSTITUTION TOTAL CITY TOTAL	1 1	29,019 29,019	
AUGUSTA MEDICAL COLLEGE OF GEORGIA HL33007-00 CB33909-00	HUISMAN, TITUS H SCOTT, DAVID F	CHROMATOGRAPHIC SCREENING FOR HEMOGLOBINOPATHIES STUDY OF NEOPLASTIC MAMMARY-GLAND TISSUES	92,500 82,000
INSTITUTION TOTAL CITY TOTAL	2 2	174,500 174,500	
STATE TOTAL	3	203,519	
IDAHO BOISE ST. LUKE'S HOSPITAL CN35029-00	POMPA, ALFRED M	SCREENING FOR CANCER OF THE BREAST	136,576
INSTITUTION TOTAL CITY TOTAL	1 1	136,576 136,576	
STATE TOTAL	1	136,576	
ILLINOIS CHICAGO AMERICAN COLLEGE OF SURGEONS CN35030-00	MAYER, ANDREW	CONSULTATIVE PROGRAM FOR HOSPITALS	190,861

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DOLLARS  
AWARDED

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
ILLINOIS CHICAGO AMERICAN DENTAL ASSOCIATION DE32428-CO	HEFFERREN, JOHN J	STUDY OF TECHNIQUES FOR DETERMINING FLUORIDE CONTENT	30,000
INSTITUTION TOTAL	1		30,000
ILLINOIS INSTITUTE OF TECHNOLOGY HD32798-00	KROTOSZYNSKI, B K	TECHNIQUES FOR DETECTION OF OVULATION IN PRIMATES	83,035
INSTITUTION TOTAL	1		83,035
RUSH-PRESBYTERIAN-ST. LUKE'S MEDICAL CENTER CB33886-0C	SKY-PECK, HOWARD H	CELL KINETICS OF BREAST CANCER	46,000
INSTITUTION TOTAL	1		46,000
UNIVERSITY OF ILLINOIS SYSTEM--UNIVERSITY OF ILLINOIS AT THE MEDICAL CENTER EY32125-00	GOLDBERG, MORTON F	STUDY OF DIABETIC RETINOPATHY	100,626
INSTITUTION TOTAL	1		100,626
CITY TOTAL	5		450,522
STATE TOTAL	5		450,522
INDIANA INDIANAPOLIS INDIANAPOLIS CENTER FOR ADVANCED RESEARCH NS32319-00	FRY FRANCIS J	STUDY OF ULTRASONIC DIAGNOSTIC TECHNIQUES	55,081
INSTITUTION TOTAL	1		55,081
CITY TOTAL	1		55,081
STATE TOTAL	1		55,081
IOWA IOWA CITY UNIVERSITY OF IOWA EY32123-00 DE32429-00	WATZKE, ROBERT C WEI, STEPHEN H	STUDY OF DIABETIC RETINOPATHY EVALUATION OF TECHNIQUES TO DETERMINE FLUORIDE CONTENT	55,706 42,000
INSTITUTION TOTAL	2		97,706

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RESEARCH CONTRACTSDOLLARS  
AWARDED

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
CITY TOTAL	2	97,706	
STATE TOTAL	2	97,706	
KENTUCKY			
LEXINGTON			
UNIVERSITY OF KENTUCKY			
CB33869-00	GOLDENBERG, DAVID M	STUDY OF CARCINOEMBRYONIC ANTIGENS	34,000
INSTITUTION TOTAL	1	34,000	
CITY TOTAL	1	34,000	
STATE TOTAL	1	34,000	
LOUISIANA			
COVINGTON			
TULANE UNIVERSITY			
CP33396-00	ALLEN, WILLIAM P	ROLE OF IMMUNITY IN OUTCOME OF INFECTION	79,389
INSTITUTION TOTAL	1	79,389	
CITY TOTAL	1	79,389	
NEW ORLEANS			
GULF SOUTH RESEARCH			
DE32425-00	INSTITUTE--LAKE PONTCHARTRAIN LABORATORIES RAWLS, RALPH H	DIAGNOSTIC SYSTEM FOR EARLY DETECTION OF DENTAL CARIES	80,175
INSTITUTION TOTAL	1	80,175	
TULANE UNIVERSITY			
AM32214-00	LINDHOLM, DALE D	DEVELOPMENT OF HEMODIALYSIS CANNULA DEVICE	21,000
INSTITUTION TOTAL	1	21,000	
CITY TOTAL	2	101,175	
STATE TOTAL	3	180,564	
MARYLAND			
BALTIMORE			
JOHNS HOPKINS UNIVERSITY			
HD32796-00	BRUNTON, WILLIAM J	REGULATION OF BICARBONATE IN OVIDUCTAL FLUID	50,656
EY32127-00	PATZ, ARNALL	STUDY OF DIABETIC RETINOPATHY	72,487



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RESEARCH CONTRACTS

DOLLARS  
AWARDED

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	
MARYLAND BALTIMORE JOHNS HOPKINS UNIVERSITY EY32139-00	PATZ, ARNALL	EVALUATION OF RETINAL CHOROIDAL CIRCULATION	413,507
INSTITUTION TOTAL	3	536,650	
UNIVERSITY OF MARYLAND SYSTEM--UNIVERSITY OF MARYLAND EY32129-00	KNATTERUD, GENELL L	PROFESSIONAL SCHOOLS STUDY OF RETINOPATHY	174,308
INSTITUTION TOTAL	1	174,308	
CITY TOTAL	4	710,958	
BETHESDA LITTON INDUSTRIES--LITTON BIONETICS CA92111-0001 CN35023-00	INNES, J R SIBINOVIC, KYLE H	HISTOPATHOLOGICAL SLIDES--COMPARISONS AND DIAGNOSES TRAINING OF LABORATORY PERSONNEL	2,668 51,125
INSTITUTION TOTAL	2	53,793	
MICROBIOLOGICAL ASSOCIATES NS42300-00 NS42301-00	CASTELLANO, GABRIEL A MCKINNEY, ROBERT	PRODUCTION OF ANTIGENS AND VIRAL DIAGNOSTIC REAGENTS PREPARATION OF CELL CULTURES	155,036 38,636
INSTITUTION TOTAL	2	193,672	
CITY TOTAL	4	247,465	
LAUREL PHARMACOPATHICS RESEARCH LABORATORIES CB33887-00	TEGERIS, ANDREW S	SUPPORT FOR ANIMAL-CARE FACILITY	83,448
INSTITUTION TOTAL	1	83,448	
CITY TOTAL	1	83,448	
ROCKVILLE ENVIRO CONTROL CP33382-00	HAYWARD, A E	SUPPORT SERVICES FOR THE TOBACCO RESEARCH PROGRAM	119,098
INSTITUTION TOTAL	1	119,098	
HEWLETT-PACKARD COMPANY CT32136-00	NCT APPLICABLE	SUPPORT FOR LABORATORY COMPUTER SYSTEM	24,350
INSTITUTION TOTAL	1	24,350	

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RESEARCH CONTRACTS

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
MARYLAND ROCKVILLE TRACOR, INC.--JOHN I. THOMPSON & COMPANY CP33402-00	LEE, ANTHONY	SEARCH OF CANCER LITERATURE	114,366
INSTITUTION TOTAL	1	114,366	
CITY TOTAL	3	257,814	
STATE TOTAL	12	1,299,685	
MASSACHUSETTS BOSTON BETH ISRAEL HOSPITAL NS32320-00	FRIEDMAN, EMANUEL A	TIME-TREND ANALYSIS OF DATA RELATED TO PREGNANCY OUTCOME	411,700
INSTITUTION TOTAL	1	411,700	
BOSTON UNIVERSITY HL32993-00 HD32787-00	LAING, RONALD A WOTIZ, HERBERT H	NONINVASIVE MEASUREMENT OF VASCULAR CONDITIONS STUDY OF ESTROGEN COMPETITORS	15,000 56,572
INSTITUTION TOTAL	2	71,572	
CENTER FOR BLCOD RESEARCH HL32940-00	PENNEL, ROBERT B	PREPARATION OF INTRAVENOUS IGG	161,500
INSTITUTION TOTAL	1	161,500	
CHILDREN'S HOSPITAL MEDICAL CENTER EY32133-00	SIDMAN, RICHARD L	DEVELOPMENT OF A RAT-BREEDING COLONY	235,639
INSTITUTION TOTAL	1	235,639	
FORSYTH DENTAL CENTER DE32430-00	LOBENE, RALPH R	STUDY OF ANTIMICROBIAL AGENTS	137,700
INSTITUTION TOTAL	1	137,700	
HARVARD UNIVERSITY HD32783-00 CP43218-00	BELLVE, ANTHONY R MACK, THOMAS M	STUDY OF METABOLISM OF NUCLEAR PROTEINS OF SPERM STUDY OF DISEASES AMONG VIROLOGIC LABORATORY WORKERS	42,835 4,966
INSTITUTION TOTAL	2	47,801	

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RESEARCH CONTRACTS

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
MASSACHUSETTS BOSTON MASSACHUSETTS GENERAL HOSPITAL AM3220-00 CB33918-00	POTTS, JOHN T, JR ROBINSON, DWIGHT R	PURIFICATION OF BOVINE PARATHYROID EXTRACT STUDY OF ROLE OF PROSTAGLANDINS IN NEOPLASIA	5,947 52,000
INSTITUTION TOTAL	2	57,947	
ROBERT B. BRIGHAM HOSPITAL CB33896-00	CHURCHILL, W HALLOWELL	STUDY OF MACROPHAGE ACTIVATION IN TUMOR IMMUNITY	160,865
INSTITUTION TOTAL	1	160,865	
CITY TOTAL	11	1,284,724	
CAMBRIDGE ABT ASSOCIATES, INC. LM34738-00	NOT APPLICABLE	EVALUATION OF AUDIOVISUAL SYSTEM	53,124
INSTITUTION TOTAL	1	53,124	
ARTHUR D. LITTLE, INC. HD42802-00	BURG, ALAN W	STUDY OF CONTRACEPTIVE DRUGS	60,900
INSTITUTION TOTAL	1	60,900	
CITY TOTAL	2	114,024	
SHREWSBURY WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY HD32781-00	DAVIS, BRIAN K	STUDY OF CONTROL OF SPERM-FERTILIZING CAPACITY	43,425
INSTITUTION TOTAL	1	43,425	
CITY TOTAL	1	43,425	
WALTHAM WHITTAKER CORPORATION--SPACE SCIENCES DIVISION HL33003-00 EY32132-00	AISENBERG, SOL SHEENA, DAVID	DEVELOPMENT OF AN IMPLANTABLE OXYGEN SENSOR DEVELOPMENT OF PHOTOGRAPHIC TECHNIQUE FOR ANGIOGRAPHY	43,000 90,967
INSTITUTION TOTAL	2	133,967	
CITY TOTAL	2	133,967	

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RESEARCH CONTRACTS

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
MASSACHUSETTS			
WILMINGTON			
CHARLES RIVER BREEDING LABORATORIES			
RR32134-00	FOSTER, HENRY L	FEASIBILITY STUDY OF DOMESTIC PRODUCTION OF MONKEYS	63,000
INSTITUTION TOTAL	1		63,000
CITY TOTAL	1		63,000
STATE TOTAL	17		1,639,140
MICHIGAN			
DETROIT			
CHILD RESEARCH CENTER OF MICHIGAN			
CP33333-00	STULBERG, CYRIL S	STUDY OF IDENTIFICATION OF CANCER CELLS IN VITRO	65,020
INSTITUTION TOTAL	1		65,020
CITY TOTAL	1		65,020
LANSING			
MICHIGAN DEPARTMENT OF PUBLIC HEALTH			
HL32941-00	MC CALL, KEITH B	PREPARATION OF GAMMA GLOBULIN	90,720
INSTITUTION TOTAL	1		90,720
CITY TOTAL	1		90,720
STATE TOTAL	2		155,740
MINNESOTA			
MINNEAPOLIS			
HENNEPIN COUNTY GENERAL HOSPITAL			
AM32228-00	SHAPIRO, FRED L	COLLECTION OF COST DATA FOR DIALYSIS	5,160
INSTITUTION TOTAL	1		5,160
UNIVERSITY OF MINNESOTA			
EY32126-00	HARRIS, JOHN E	STUDY OF DIABETIC RETINOPATHY	83,959
CB33915-00	NAJARIAN, JOHN S	COLLECTION OF SERA FROM HIGH-CANCER RISK PATIENTS	59,613
CB43853-00	YUNIS, EDMOND J	ASSAYS FOR IMMUNE DEPRESSION IN CANCER PATIENTS	202,500
INSTITUTION TOTAL	3		346,072
CITY TOTAL	4		351,232

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RESEARCH CONTRACTS

DOLLARS  
AWARDED

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	
MINNESOTA ROCHESTER MAYO FOUNDATION CB33899-00	AHMANN, D L	EVALUATION OF SURGICAL ADJUVANT CHEMOTHERAPY	93,430 93,430 444,662
INSTITUTION TOTAL CITY TOTAL	1 1		93,430 93,430
STATE TOTAL	5		444,662
MISSISSIPPI JACKSON UNIVERSITY OF MISSISSIPPI MEDICAL CENTER AM32229-00	BOWER, JOHN	COLLECTION OF COST DATA FOR DIALYSIS	8,993 8,993 8,993
INSTITUTION TOTAL CITY TOTAL	1 1		8,993 8,993
STATE TOTAL	1		8,993
MISSOURI COLUMBIA UNIVERSITY OF MISSOURI SYSTEM--UNIVERSITY OF MISSOURI AT COLUMBIA RR32138-00	GLUECK, WILLIAM	EVALUATION OF ANIMAL LABORATORIES	52,581 52,581
INSTITUTION TOTAL CITY TOTAL	1 1		52,581 52,581
SAINT LOUIS WASHINGTON UNIVERSITY HL33017-00 AM32233-00	COLLINS, JOHN A SPARKS, ROBERT E	STUDY OF MASSIVE BLOOD TRANSFUSION IMPROVEMENT OF PHOSPHOROUS BINDERS	62,766 62,766 115,347
INSTITUTION TOTAL CITY TOTAL	2 2		62,766 62,766
STATE TOTAL	3		115,347
NEBRASKA OMAHA CREIGHTON UNIVERSITY CB33901-00	LYNCH, HENRY T	STUDY OF FAMILIES WITH A HIGH INCIDENCE OF BREAST CANCER	90,000
INSTITUTION TOTAL	1		90,000

52,581

34,416  
28,350

90,000



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RESEARCH CONTRACTS

DOLLARS  
AWARDED

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	
CITY TOTAL	1	90,000	
STATE TOTAL	1	90,000	
NEW JERSEY			
LINDEN			
STANDARD OIL COMPANY (N.J.)--ESSO RESEARCH AND ENGINEERING COMPANY			
AM32224-00	ASHER, WILLIAM J	LIQUID MEMBRANE CAPSULE SYSTEM FOR CHRONIC UREMIA	66,212
INSTITUTION TOTAL	1	66,212	
CITY TOTAL	1	66,212	
NEWARK			
COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY--NEW JERSEY MEDICAL SCHOOL			
CN35006-00	HUITER, ROBERT V	SCREENING FOR CANCER OF THE BREAST	161,402
HL33104-00	LASSER, NORMAN L	SUPPORT FOR CLINICAL CENTER FOR HEART DISEASE	361,737
INSTITUTION TOTAL	2	523,139	
CITY TOTAL	2	523,139	
STATE TOTAL	3	589,351	
NEW YORK			
ALBANY			
UNION COLLEGE AND UNIVERSITY SYSTEM--ALBANY MEDICAL COLLEGE			
EY32124-00	VAN HEUVEN, WICHARD A	STUDY OF DIABETIC RETINOPATHY	66,928
INSTITUTION TOTAL	1	66,928	
CITY TOTAL	1	66,928	
BUFFALO			
NEW YORK STATE DEPARTMENT OF HEALTH--ROSWELL PARK MEMORIAL INSTITUTE			
CB33858-00	CHU, TSANN M	STUDY OF CARCINOEMBRYONIC ANTIGENS	75,000
INSTITUTION TOTAL	1	75,000	
CITY TOTAL	1	75,000	
NEW YORK			
AMERICAN CANCER SOCIETY			
CP43213-00	HAMMOND, CUYLER E	STUDY OF SMOKING AND MORTALITY AMONG VETERANS	100,877

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RESEARCH CONTRACTS

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
NEW YORK NEW YORK AMERICAN CANCER SOCIETY CN35010-00	MILT, HARRY	SUPPORT FOR THIRD WORLD CONFERENCE ON SMOKING	201,850
INSTITUTION TOTAL	2	302,727	
CITY UNIVERSITY OF NEW YORK--MOUNT SINAI SCHOOL OF MEDICINE CB33912-00 CN35009-00	DOUGLAS, STEVEN D WASSERMAN, LOUIS R	STUDY OF EFFECTOR MOLECULES AND CELLULAR BIOCHEMISTRY DEVELOPMENT OF CLINICAL CANCER CHEMOTHERAPY PROGRAM	99,600 308,138
INSTITUTION TOTAL	2	407,738	
COLUMBIA UNIVERSITY HD32797-00	GREGOR, HARRY P	DEVELOPMENT OF POLYELECTROLYTE SYSTEM FOR CAUTERIZATION	86,600
INSTITUTION TOTAL	1	86,600	
HEALTH INSURANCE PLAN OF GREATER NEW YORK CN35021-00	FINK, RAYMOND	EVALUATION OF THERMOGRAPHY IN BREAST-CANCER SCREENING	420,000
INSTITUTION TOTAL	1	420,000	
NEW YORK UNIVERSITY HL32989-00 CB33903-00	JAVID, JAMSHID POST, JOSEPH	IMMUNOLOGIC METHOD FOR DIAGNOSIS OF SICKLE CELL ANEMIA STUDY OF CELL KINETICS OF CANCER OF THE BREAST	49,480 100,700
INSTITUTION TOTAL	2	150,180	
SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH CB43854-00	FOGH, JORGEN E	ISOLATION AND TISSUE CULTURE OF HUMAN TUMOR CELLS	125,632
INSTITUTION TOTAL	1	125,632	
SOCIETY OF THE NEW YORK HOSPITAL AM32231-00	RUBIN, ALBERT L	COLLECTION OF COST DATA FOR DIALYSIS	5,000
INSTITUTION TOTAL	1	5,000	
YESHIVA UNIVERSITY HL33014-00 HL33013-00	HOFFMAN, LEE KIKKAWA, YUTAKA	ISOLATION OF CELL TYPES FROM ADULT MAMMALIAN LUNG STUDY OF STRUCTURE OF THE LUNGS	141,600 144,620
INSTITUTION TOTAL	2	286,220	
CITY TOTAL	12	1,784,097	

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RESEARCH CONTRACTS

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
NEW YORK			
ROCHESTER			
UNIVERSITY OF ROCHESTER			
AM32221-00	BAUM, JOHN	STUDY OF CHEMOTAXIS IN UREMIA	20,530
AM32218-00	BETTS, ROBERT F	VIRUS INFECTION IN CHRONIC HEMODIALYSIS PATIENTS	67,910
INSTITUTION TOTAL	2	88,440	
CITY TOTAL	2	88,440	
STONY BROOK			
STATE UNIVERSITY OF NEW YORK AT STONY BROOK			
CP33361-00	LANE, BERNARD	STUDY OF CARCINOGENESIS IN ORGAN CULTURE	185,000
INSTITUTION TOTAL	1	185,000	
CITY TOTAL	1	185,000	
TARRYTOWN			
TECHNICON CORPORATION			
CM33746-00	MARGOSHES, MARVIN	DEVELOPMENT OF EQUIPMENT FOR DETERMINING POLYAMINES	170,925
INSTITUTION TOTAL	1	170,925	
CITY TOTAL	1	170,925	
STATE TOTAL	18	2,370,390	
NORTH CAROLINA			
DURHAM			
DUKE UNIVERSITY			
ES32117-00	JOINES, WILLIAM T	DEVELOPMENT OF MICROWAVE INSTRUMENTATION	15,267
HL33019-00	ROSSE, WENDELL F	COOPERATIVE STUDY OF SICKLE CELL DISEASE	35,000
INSTITUTION TOTAL	2	50,267	
CITY TOTAL	2	50,267	
RESEARCH TRIANGLE			
BECTION, DICKINSON AND COMPANY--RESEARCH CENTER			
RS32137-00	PHILLIPS, G B	DEVELOPMENT OF MANUAL ON BIOLOGICAL HAZARDS	19,656
INSTITUTION TOTAL	1	19,656	
CITY TOTAL	1	19,656	
STATE TOTAL	3	69,923	

19,656

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RESEARCH CONTRACTSDOLLARS  
AWARDED

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
OHIO CINCINNATI UNIVERSITY OF CINCINNATI CN35024-00	MOSKOWITZ, MYRON	SCREENING FOR CANCER OF THE BREAST	138,891
INSTITUTION TOTAL	1		138,891
CITY TOTAL	1		138,891
CLEVELAND CASE WESTERN RESERVE UNIVERSITY AI32527-00	DANIEL, THOMAS M	CHARACTERIZATION OF MYCOBACTERIAL ANTIGENS	23,207
NS32323-00	MIRALDI, F	DEVELOPMENT OF A TAPE-LOCATOR SYSTEM	11,700
INSTITUTION TOTAL	2		34,907
CITY TOTAL	2		34,907
DAYTON WRIGHT STATE UNIVERSITY HL33016-00	HAY, ROBERT J	DEVELOPMENT OF CELL STRAINS FROM LUNGS	72,734
INSTITUTION TOTAL	1		72,734
CITY TOTAL	1		72,734
KETTERING COX HEART INSTITUTE HL33108-00	KEZDI, PAUL	SUPPORT FOR CLINICAL CENTER FOR HEART DISEASE	329,585
INSTITUTION TOTAL	1		329,585
CITY TOTAL	1		329,585
MAPLE HEIGHTS MICROBIOLOGICAL LABORATORIES CP33388-00	FRIEDMAN, LESTER	SYNTHESIS OF POLYCYCLIC HYDROCARBON DERIVATIVES	25,575
INSTITUTION TOTAL	1		25,575
CITY TOTAL	1		25,575
STATE TOTAL	6		601,692
OKLAHOMA STILLWATER OKLAHOMA STATE UNIVERSITY CB33910-00	EBNER, KURT E	STUDY OF EFFECTOR MOLECULES AND CELLULAR BIOCHEMISTRY	94,500

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RESEARCH CONTRACTS

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
INSTITUTION TOTAL	1	94,500	
CITY TOTAL	1	94,500	
STATE TOTAL	1	94,500	
OREGON			
PORTLAND			
GOOD SAMARITAN HOSPITAL AND MEDICAL CENTER			
AM32222-00	RABINER, FREDERICK S	PLATELET FUNCTION AS AN INDICATOR OF ADEQUATE DIALYSIS	24,242
INSTITUTION TOTAL	1	24,242	
OREGON STATE HIGHER EDUCATION SYSTEM--UNIVERSITY OF OREGON MEDICAL SCHOOL			
HL32942-00	PIROFSKY, BERNARD	PREPARATION OF GAMMA GLOBULIN	90,960
INSTITUTION TOTAL	1	90,960	
CITY TOTAL	2	115,202	
STATE TOTAL	2	115,202	
PENNSYLVANIA			
HERSHEY			
PENNSYLVANIA STATE UNIVERSITY MILTON S. HERSHEY MEDICAL CENTER			
CB33891-00	BARTLETT, GERALD L	STUDY OF CANCER IMMUNOTHERAPY	195,943
INSTITUTION TOTAL	1	195,943	
CITY TOTAL	1	195,943	
PHILADELPHIA			
8002, ALLEN & HAMILTON--NATIONAL ANALYSTS			
HL33111-00	COHEN, JOEL B	SURVEY OF HEALTH CHARACTERISTICS OF TWINS	50,425
INSTITUTION TOTAL	1	50,425	
FRANKLIN INSTITUTE OF THE STATE OF PENNSYLVANIA			
LM34735-00	NOT APPLICABLE	USE OF COMPUTER INPUT TO GATHER MEDLARS DATA	7,471
INSTITUTION TOTAL	1	7,471	
INSTITUTE FOR SCIENTIFIC INFORMATION			
LM34731-00	NOT APPLICABLE	STUDY OF CITATION USE OF THE MEDICAL LITERATURE	8,532
INSTITUTION TOTAL	1	8,532	



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RESEARCH CONTRACTSDOLLARS  
AWARDED

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	
PENNSYLVANIA PHILADELPHIA LANKENAU HOSPITAL HL33110-00	HOLMES, WILLIAM L	SUPPORT FOR CLINICAL CENTER FOR HEART DISEASE	333,856

333,856

INSTITUTION TOTAL 1

PHILADELPHIA GERIATRIC CENTER CB33914-00	ALTSCHULER, HENRY	COLLECTION OF SERA FROM HIGH CANCER-RISK POPULATIONS	46,000
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46,000

INSTITUTION TOTAL 1

THOMAS JEFFERSON UNIVERSITY CN35027-00	WALLACE, JOHN D	STUDY OF THERMOGRAPHY IN SCREENING FOR BREAST CANCER	499,900
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499,900

INSTITUTION TOTAL 1

UNIVERSITY CITY SCIENCE CENTER CN35035-00	CLARK, KAPP J	SCREENING FOR CANCER OF THE BREAST	498,068
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498,068

INSTITUTION TOTAL 1

UNIVERSITY OF PENNSYLVANIA CB33860-00 HL32963-00	GASIC, GABRIEL J WURZEL, HAROLD A	EFFECTIVENESS OF NEURAMINIDASE IN TUMOR IMMUNOTHERAPY STUDY OF MASSIVE TRANSFUSION OF BLOOD	60,375 59,761
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60,375  
59,761

INSTITUTION TOTAL 2

WILLS EYE HOSPITAL EY32119-00	TASMAN, WILLIAM S	STUDY OF DIABETIC RETINOPATHY	45,692
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45,692

INSTITUTION TOTAL 1  
CITY TOTAL 10

PITTSBURGH UNIVERSITY OF PITTSBURGH HL33109-00 CB33904-00	KULLER, LEWIS H SASHIN, DONALD	SUPPORT FOR CLINICAL CENTER FOR CORONARY HEART DISEASE SCREENING FOR CANCER OF THE BREAST	324,862 124,000
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324,862  
124,000INSTITUTION TOTAL 2  
CITY TOTAL 2

UNIVERSITY PARK PENNSYLVANIA STATE UNIVERSITY CB33898-00	GAFFNEY, E V	STUDY OF CULTIVATION OF HUMAN MAMMARY CELLS	57,114
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57,114

NIH  
RESEARCH CONTRACTS

DOLLARS  
AWARDED

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
INSTITUTION TOTAL	1	57,114	
CITY TOTAL	1	57,114	
STATE TOTAL	14	2,311,999	
TENNESSEE			
MEMPHIS			
UNIVERSITY OF TENNESSEE SYSTEM--UNIVERSITY OF TENNESSEE MEDICAL UNITS			
AM32219-00	AUTIAN, JOHN	TOXICITY OF CONSTITUENTS FROM DIALYZERS	29,680
INSTITUTION TOTAL	1	29,680	
CITY TOTAL	1	29,680	
NASHVILLE			
DIALYSIS CLINIC			
AM32226-00	WALKER, PHILIP J	COLLECTION OF COST DATA FOR DIALYSIS	5,500
INSTITUTION TOTAL	1	5,500	
CITY TOTAL	1	5,500	
STATE TOTAL	2	35,180	
TEXAS			
AUSTIN			
UNIVERSITY OF TEXAS SYSTEM--UNIVERSITY OF TEXAS AT AUSTIN			
CP33384-00	GIBSON, DAVID T	SYNTHESIS OF CARCINOGENIC POLYCYCLIC HYDROCARBONS	53,500
INSTITUTION TOTAL	1	53,500	
CITY TOTAL	1	53,500	
HOUSTON			
UNIVERSITY OF TEXAS SYSTEM--UNIVERSITY OF TEXAS M. D. ANDERSON HOSPITAL AND TUMOR INSTITUTE			
CB33888-00	GUTTERMAN, JORDAN U	STUDY OF CANCER IMMUNOTHERAPY	463,000
CN35033-00	HICKEY, ROBERT C	SUPPORT FOR CANCER INFORMATION TELEPHONE SERVICES	148,146
INSTITUTION TOTAL	2	611,146	
UNIVERSITY OF TEXAS SYSTEM--UNIVERSITY OF TEXAS MEDICAL SCHOOL AT HOUSTON			
HD32782-00	SANBORN, BARBARA M	STUDY OF ANDROGEN RECEPTORS IN THE TESTIS	96,706
HD32779-00	SANBORN, BARBARA M	STUDY OF EXISTENCE OF SPECIFIC CYTOPLASMIC RECEPTORS	71,981
INSTITUTION TOTAL	2	168,687	

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RESEARCH CONTRACTS

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
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CITY TOTAL	4	779,833	
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STATE TOTAL	5	833,333	
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UTAH  
SALT LAKE CITY  
UTAH STATE HIGHER EDUCATION SYSTEM--UNIVERSITY OF UTAH  
EY32122-00 RIEKHOF, F TEMPLE STUDY OF DIABETIC RETINOPATHY

INSTITUTION TOTAL	1	66,613	
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CITY TOTAL	1	66,613	
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STATE TOTAL	1	66,613	
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66,613

VERMONT  
BURLINGTON  
UNIVERSITY OF VERMONT AND STATE AGRICULTURAL COLLEGE  
CP33360-00 CRAIGHEAD, JOHN E STUDY OF CARCINOGENESIS IN ORGAN CULTURE

INSTITUTION TOTAL	1	146,967	
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CITY TOTAL	1	146,967	
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STATE TOTAL	1	146,967	
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146,967

VIRGINIA  
SPRINGFIELD  
MELOY LABORATORIES  
CP43223-00 VERNER, JOHN E MOLECULAR STUDY OF CARCINOMA OF THE BREAST

INSTITUTION TOTAL	1	496,037	
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CITY TOTAL	1	496,037	
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496,037

VIENNA  
ENVIRONMENTAL SCIENCES CORPORATION--HAZELTON LABORATORIES  
CM43702-00 BOWLES, CHARLES A STUDY OF BONE-MARROW TRANSPLANTATION AND IMMUNOLOGY

INSTITUTION TOTAL	1	292,485	
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CITY TOTAL	1	292,485	
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STATE TOTAL	2	788,522	
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292,485

NIH  
RESEARCH CONTRACTS

DOLLARS  
AWARDED

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
WASHINGTON RICHLAND BATTELLE MEMORIAL INSTITUTE--PACIFIC NORTHWEST LABORATORIES CP33374-00	DAGLE, G E	STUDY OF IMPLANTATION OF LUNG PELLETS	97,262
INSTITUTION TOTAL	1		97,262
CITY TOTAL	1		97,262
SEATTLE SWEDISH HOSPITAL MEDICAL CENTER AM32230-00	BLAGG, CHRISTOPHER R	COLLECTION OF COST DATA ON HEMODIALYSIS	7,372
INSTITUTION TOTAL	1		7,372
UNIVERSITY OF WASHINGTON EY42128-00	MC LEAN, EDWARD B	CLINICAL STUDY OF DIABETIC RETINOPATHY	315,005
LM34733-00	NOT APPLICABLE	DOCUMENTATION OF ATS-F HEALTH EXPERIMENTS	301,606
INSTITUTION TOTAL	2		616,611
CITY TOTAL	3		623,983
STATE TOTAL	4		721,245
WISCONSIN MADISON UNIVERSITY OF WISCONSIN SYSTEM--UNIVERSITY OF WISCONSIN-MADISON	DAVIS, MATTHEW D	STUDY OF DIABETIC RETINOPATHY	128,163
EY32130-00	MYERS, FRANK L	STUDY OF DIABETIC RETINOPATHY	73,667
EY32121-00			
INSTITUTION TOTAL	2		201,830
CITY TOTAL	2		201,830
MILWAUKEE MEDICAL COLLEGE OF WISCONSIN AI32530-00	GROSSBERG, SIDNEY E	STUDY OF BIOLOGICAL STIMULATORS OF INTERFERON	70,282
INSTITUTION TOTAL	1		70,282
MOUNT SINAI MEDICAL CENTER CB33853-00	BORTIN, M M	STUDY OF GRAFTS AND TUMORS OF CARCINOMA	70,200
INSTITUTION TOTAL	1		70,200
CITY TOTAL	2		140,482

NIH  
RESEARCH CONTRACTS

DOLLARS  
AWARDED

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	
STATE TOTAL	4	342,312	
PUERTO RICO			
SAN JUAN			
UNIVERSITY OF PUERTO RICO SYSTEM--UNIVERSITY OF PUERTO RICO MEDICAL SCIENCES CAMPUS			
RS32125-00	CONAWAY, C H	SUPPORT FOR PRIMATE-BREEDING COLONY	20,000
RR42141-00	CONAWAY, CLINTON H	STUDY OF ECOLOGY AND BREEDING OF SUBHUMAN PRIMATES	300,000
INSTITUTION TOTAL	2	320,000	
CITY TOTAL	2	320,000	
STATE TOTAL	2	320,000	
AUSTRALIA			
PARKVILLE			
UNIVERSITY OF MELBOURNE			
CB33854-00	METCALF, DONALD	GRANULOCYTE AND MACROPHAGE PROLIFERATION IN LEUKEMIA	108,418
INSTITUTION TOTAL	1	108,418	
CITY TOTAL	1	108,418	
STATE TOTAL	1	108,418	
AUSTRIA			
SALZBURG			
AUSTRIAN ACADEMY OF SCIENCES--INSTITUTE FOR MOLECULAR BIOLOGY			
CB33883-00	KRATOCHWILL, KLAUS	RESPONSE OF EMBRYO MAMMARY GLAND TO ANDROGENIC HORMONES	22,350
INSTITUTION TOTAL	1	22,350	
CITY TOTAL	1	22,350	
STATE TOTAL	1	22,350	
CANADA			
MONTREAL			
MONTREAL HEART INSTITUTE			
HL32983-00	BOURASSA, MARTIAL G	COLLABORATIVE STUDY OF SURGERY ON CORONARY ARTERIES	2,810
INSTITUTION TOTAL	1	2,810	
CITY TOTAL	1	2,810	
STATE TOTAL	1	2,810	



NIH  
RESEARCH CONTRACTS

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
ISRAEL JERUSALEM HEBREW UNIVERSITY CP33310-CC CP33342-00 HL33103-00	BECKER, YECHIEL GOLDBLUM, NATAN MEDALIE, JACK H	STUDY OF ROLE OF HERPES VIRUS (EBV) IN HUMAN CANCER STUDY OF HODGKIN'S DISEASE STUDY OF ISCHEMIC HEART DISEASE AND HYPERTENSION	98,000 154,628 36,600
INSTITUTION TOTAL CITY TOTAL	3 3	289,228 289,228	
TEL AVIV TEL AVIV UNIVERSITY CB43858-0C	WITZ, ISAAC P	STUDY OF TUMOR CELL AND IMMUNOGLOBULIN INTERACTIONS	30,000
INSTITUTION TOTAL CITY TOTAL	1 1	30,000 30,000	
STATE TOTAL	4	319,228	30,000
NETHERLANDS RIJSDWIJK NETHERLANDS CENTRAL ORGANIZATION TNO CP33330-00	BROCRSE, JOHANNES J	STUDY OF INTERACTION OF HORMONES	195,201
INSTITUTION TOTAL CITY TOTAL	1 1	195,201 195,201	
UTRECHT UNIVERSITY OF UTRECHT CB33885-00	DE WAARD, FRITS	STUDY OF ROLE OF OBESITY IN CANCER OF THE BREAST	24,500
INSTITUTION TOTAL CITY TOTAL	1 1	24,500 24,500	
STATE TOTAL	2	219,701	24,500
S AFR REP OF CAPE TOWN UNIVERSITY OF CAPE TOWN CM33738-00	SEALY, GORDON R	THERAPY OF PATIENTS WITH BRONCHOGENIC CARCINOMA	36,000
INSTITUTION TOTAL CITY TOTAL	1 1	36,000 36,000	
STATE TOTAL	2	219,701	36,000

NIH  
RESEARCH CONTRACTS

CONTRACT NUMBER	PROJECT DIRECTOR	SCOPE OF WORK	DOLLARS AWARDED
STATE TOTAL	1	36,000	
SWEDEN			
STOCKHOLM			
CAROLINE INSTITUTE			
CB33866-00	ANDERSON, BIRGER	ROLE OF T-LYMPHOCYTES IN TUMOR-ASSOCIATED IMMUNITY	16,370
CB33868-00	BLOMGREN, HENRIC	STUDY OF CELL SYNERGY IN IMMUNE REACTIONS	8,370
CB33870-00	KLEIN, EVA	STUDY OF EFFECTOR MECHANISMS IN IMMUNE REACTIONS	23,870
CB33859-00	WIGZELL, HANS	STUDY OF CELL-MEDIATED LYSIS	18,120
INSTITUTION TOTAL	4	66,730	
UNIVERSITY OF STOCKHOLM			
CP33363-00	ERNSTER, LARS	STUDY OF POLYCYCLIC HYDROCARBON METABOLISM	172,130
INSTITUTION TOTAL	1	172,130	
CITY TOTAL	5	238,860	
STATE TOTAL	5	238,860	
UNITED KINGDOM			
LONDON			
UNIVERSITY OF LONDON			
CP33367-00	BROOKES, PETER	STUDY OF NATURE OF THE POLYCYCLIC HYDROCARBON	195,000
INSTITUTION TOTAL	1	195,000	
CITY TOTAL	1	195,000	
STATE TOTAL	1	195,000	
TOTAL	184	20,576,008	

NIH  
RESEARCH TRAINING GRANTSDOLLARS  
AWARDED

GRANT NUMBER	PROGRAM DIRECTOR	TITLE OF PROGRAM	DOLLARS AWARDED
CONNECTICUT NEW HAVEN YALE UNIVERSITY AM05708-01	WEISSMAN, SHERMAN M	GENETIC HEMATOLOGY	23,076
INSTITUTION TOTAL	1	23,076	
CITY TOTAL	1	23,076	
STATE TOTAL	1	23,076	
TOTAL	1	23,076	

NIH  
RESEARCH FELLOWSHIP AWARDS

APPLICATION NUMBER	FELLOW	FIELD OF INTEREST	PROGRAM
FLORIDA TALLAHASSEE STATE UNIVERSITY OF FLORIDA SYSTEM--FLORIDA STATE UNIVERSITY TW02063-01	KISTLER, ANDREAS	CELL BIOLOGY	F05
INSTITUTION TOTAL	1		
CITY TOTAL	1		
STATE TOTAL	1		
TOTAL	1		

NIH  
CONSTRUCTION GRANTS

DOLLARS  
AWARDED

GRANT NUMBER	AUTHORIZING OFFICIAL	TITLE OF PROPOSAL	DOLLARS AWARDED
ALABAMA			
BIRMINGHAM			
UNIVERSITY OF ALABAMA IN BIRMINGHAM			
CA14717-01	DURANT, JOHN R	NEW CANCER FACILITY	1,114,262
INSTITUTION TOTAL	1	1,114,262	
CITY TOTAL	1	1,114,262	
STATE TOTAL	1	1,114,262	
CALIFORNIA			
LOS ANGELES			
LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT--LOS ANGELES COUNTY--UNIV OF SO CALIFORNIA MED CTR			
CA15654-01	HAMMOND, DENMAN	REMODELING CANCER RESEARCH FACILITY	2,145,700
INSTITUTION TOTAL	1	2,145,700	
CITY TOTAL	1	2,145,700	
STATE TOTAL	1	2,145,700	
FLORIDA			
MIAMI			
UNIVERSITY OF MIAMI			
CA14606-01	LESSNER, HOWARD E	CANCER RESEARCH CENTER OF GREATER MIAMI	525,000
INSTITUTION TOTAL	1	525,000	
CITY TOTAL	1	525,000	
STATE TOTAL	1	525,000	
NEW YORK			
NEW YORK			
COLUMBIA UNIVERSITY			
CA14741-01	MARKS, PAUL A	EXPANDING & REMODELING EQUIPMENT OF EXISTING FACILITY	530,271
INSTITUTION TOTAL	1	530,271	
MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES			
CA14240-01	MC LOUGHLIN, WILLIAM J	EMERGENCY ELECTRICAL POWER INSTALLATION	870,000
INSTITUTION TOTAL	1	870,000	



NIH  
CONSTRUCTION GRANTS

DOLLARS  
AWARDED

GRANT NUMBER	AUTHORIZING OFFICIAL	TITLE OF PROPOSAL	
NEW YORK			
NEW YORK			
ROCKEFELLER UNIVERSITY			
CA14622-01	ALLFREY, VINCENT G	NEW CANCER FACILITY	1,725,047
			3,125,318
INSTITUTION TOTAL	1		
CITY TOTAL	3		
STATE TOTAL	3		3,125,318
NORTH CAROLINA			
DURHAM			
DUKE UNIVERSITY			
CA14463-01	SHINGLETON, W W	NEW CANCER FACILITY	4,243,331
			4,243,331
INSTITUTION TOTAL	1		
CITY TOTAL	1		
STATE TOTAL	1		4,243,331
WASHINGTON			
SEATTLE			
PACIFIC NORTHWEST RESEARCH FOUNDATION			
CA14501-01	HUTCHINSON, WILLIAM B	NEW CANCER FACILITY	1,217,667
			1,217,667
INSTITUTION TOTAL	1		
CITY TOTAL	1		
STATE TOTAL	1		1,217,667
WISCONSIN			
MADISON			
UNIVERSITY OF WISCONSIN SYSTEM--UNIVERSITY OF WISCONSIN--MADISON			
CA15509-01	KELSEY, CHARLES A	NEW CANCER FACILITY	40,000
			40,000
INSTITUTION TOTAL	1		
CITY TOTAL	1		
STATE TOTAL	1		40,000
TOTAL	9		12,411,278

1,725,047

4,243,331

1,217,667

40,000

NIH  
MEDICAL LIBRARY GRANTS

DOLLARS  
AWARDED

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	
ILLINOIS CHICAGO JOHN CRERAR LIBRARY LM02000-01	PLETZKE, CHESTER J	REGIONAL MEDICAL LIBRARY SUPPORT	26,587
INSTITUTION TOTAL	1		26,587
CITY TOTAL	1		26,587
 PANA PANA COMMUNITY HOSPITAL LM01935-01	CHALLANS, IMOGENE	MEDICAL LIBRARY RESOURCE IMPROVEMENT SUPPORT	1,755
INSTITUTION TOTAL	1		1,755
CITY TOTAL	1		1,755
STATE TOTAL	2		28,342
 INDIANA INDIANAPOLIS INDIANA UNIVERSITY SYSTEM--INDIANA UNIVERSITY AT INDIANAPOLIS LM02016-01	LAATZ, MARY J	REGIONAL MEDICAL LIBRARY SUPPORT	32,426
INSTITUTION TOTAL	1		32,426
CITY TOTAL	1		32,426
STATE TOTAL	1		32,426
 LOUISIANA NEW ORLEANS LOUISIANA STATE UNIVERSITY SYSTEM--LOUISIANA STATE UNIVERSITY MEDICAL CENTER AT NEW ORLEANS LM01877-01	ISCHE, JOHN P	REGIONAL MEDICAL LIBRARY SUPPORT	18,177
INSTITUTION TOTAL	1		18,177
CITY TOTAL	1		18,177
STATE TOTAL	1		18,177
 MARYLAND CAMBRIDGE MARYLAND STATE DEPARTMENT OF HEALTH AND MENTAL HYGIENE--EASTERN SHORE STATE HOSPITAL LM02066-01	ENGLISH, H M	MEDICAL LIBRARY RESOURCE IMPROVEMENT SUPPORT	2,650
INSTITUTION TOTAL	1		2,650

DOLLARS  
AWARDEDNIH  
MEDICAL LIBRARY GRANTS

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
CITY TOTAL	1	2,650	
STATE TOTAL	1	2,650	
MINNESOTA			
MINNEAPOLIS			
UNIVERSITY OF MINNESOTA			
LM01965-01	BRUDVIG, GLENN L	MINNESOTA HOSPITAL LIBRARY EXTENSION SERVICE	29,953
INSTITUTION TOTAL	1	29,953	
CITY TOTAL	1	29,953	
STATE TOTAL	1	29,953	29,953
NEBRASKA			
LINCOLN			
NEBRASKA TECHNICAL COMMUNITY COLLEGE			
LM02050-01	SWANSON, BARBARA	MEDICAL LIBRARY RESOURCE IMPROVEMENT SUPPORT	3,000
INSTITUTION TOTAL	1	3,000	
CITY TOTAL	1	3,000	
STATE TOTAL	1	3,000	3,000
NEW YORK			
NEW YORK			
COLUMBIA UNIVERSITY			
LM02006-01	MORGAN, COUNCILMAN	MEDICAL LIBRARY RESOURCE PROJECT SUPPORT	71,215
INSTITUTION TOTAL	1	71,215	
CITY TOTAL	1	71,215	
STATE TOTAL	1	71,215	71,215
NORTH DAKOTA			
GRAND FORKS			
UNIVERSITY OF NORTH DAKOTA			
LM02010-01	YOUNGGREN, MELBA L	REGIONAL MEDICAL LIBRARY SUPPORT	29,723
INSTITUTION TOTAL	1	29,723	
CITY TOTAL	1	29,723	
STATE TOTAL	1	29,723	29,723

DOLLARS  
AWARDED

NIH  
MEDICAL LIBRARY GRANTS

GRANT NUMBER	PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH PROPOSAL	DOLLARS AWARDED
SOUTH CAROLINA			
CHARLESTON			
MEDICAL UNIVERSITY OF SOUTH CAROLINA			
LM01820-01	SAWYER, WARREN A	MEDICAL LIBRARY RESOURCE PROJECT SUPPORT	60,170
INSTITUTION TOTAL			60,170
CITY TOTAL			60,170
STATE TOTAL			60,170
WISCONSIN			
MADISON			
UNIVERSITY OF WISCONSIN SYSTEM--UNIVERSITY OF WISCONSIN-MADISON			
LM02027-01	HOLTZ, VIRGINIA H	REGIONAL MEDICAL LIBRARY SUPPORT	32,973
INSTITUTION TOTAL			32,973
CITY TOTAL			32,973
STATE TOTAL			32,973
TOTAL			308,629



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